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Vision Statement
Corning Community College will be a premier community college where learning transforms lives.

Mission Statement
Corning Community College serves lifelong learners in our region by providing access to high-quality, affordable transfer, career, and workforce development educational opportunities. Our learning environment fosters empowerment, leadership, and teamwork for academic, professional, and personal success. We collaborate locally and promote global awareness for social, environmental, and economic sustainability.

Accreditation
The degree programs described in this catalog are registered with the New York State Education Department and are approved by the State University of New York Board of Trustees. The College is accredited by the Middle States Association of Colleges and Secondary Schools. The Nursing Program is accredited by the Accreditation Commission for Education in Nursing, Inc., 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia, 30326. It may be contacted at (404) 975-5000 for program information. CCC is fully accredited by the Veterans Administration for educational benefits to qualified veterans under existing applicable public laws. Corning is also accredited under Chapter 35, Title 38, U.S.C. (a program of educational aid for children, spouses, and survivors of veterans whose deaths or permanent total disabilities were a result of injuries or diseases received from their military service).

CCC Institutional Learning Outcomes
CCC’s Institutional Learning Outcomes are the expectation of student achievement through curricular and co-curricular activities
1. Demonstrate critical thinking.
2. Communicate effectively orally and in writing, and through other modes of expression.
3. Utilize research, apply scientific reasoning and mathematical concepts, and employ creative techniques to solve problems
4. Demonstrate knowledge and skill proficiency in a program of study.
5. Apply information literacy skills necessary to support continuous, lifelong learning.
6. Demonstrate cultural and global awareness and civic knowledge.
7. Demonstrate growth in professional and personal development.

Non-Discrimination Notice
Corning Community College is committed to fostering a diverse community of outstanding faculty, staff, and students, as well as ensuring equal educational and employment opportunity and access to services, programs, and activities without regard to an individual’s race, color, national origin, religion, age, disability, sex, gender identity, sexual orientation, pregnancy, predisposing genetic characteristics, military status, criminal conviction, or any other protected characteristic. Employees, students, applicants, or other members of the College community (including, but not limited to vendors, visitors, and guests) may not be subjected to harassment that is prohibited by law or treated adversely or retaliated against based upon a protected characteristic.

The College’s policy is in accordance with federal and state law and regulations prohibiting discrimination and harassment. These laws include the Americans with Disabilities Act (ADA), Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, Title VII of the Civil Rights Act of 1964 as amended by the Equal Employment Opportunity Act of 1972, and the NYS Human Rights Law. These laws prohibit discrimination and harassment, including sexual harassment and sexual violence. Inquiries regarding the application of Title IX and other laws, regulations, and policies prohibiting discrimination may be directed to: Connie Park, Executive Director of Human Resources/Chief Diversity Officer/Title IX Coordinator, 1 Academic Drive, Corning, NY 14830, cpark3@corning-cc.edu, (607) 962-9444. Inquiries may also be directed to the United States Department of Education’s Office for Civil Rights, 32 Old Slip, 26th Floor, New York, NY 10005-2500, OCR.NewYork@ed.gov, (646) 428-3800. The College’s complete Equal Employment and Education Opportunity Policy, which includes the procedure for filing complaints of discrimination and harassment, is available in the back of this catalog.

Catalog Information
Every effort is made to ensure that the information provided in this catalog is accurate and current at the time of publication. Corning Community College reserves the right to correct errors and to add, withdraw or modify programs or courses based on changing needs or circumstances consistent with SUNY and NYS Education Department policy. Changes will be posted in the addendum section of the catalog as they occur. The information in this catalog was frozen as of 7/1/2019.
# Telephone Directory

Main number.......................................................607-962-9CCC  
Toll free.................................................................800-358-7171  
Voice/TDD Service.................................................use 711 relay  
FAX.............................................................................962-9456  
Accelerated College Education Program (ACE)...........962-9140  
Academic Affairs.....................................................962-9231  
Academic & Workforce Development Center...............936-5500  
Admissions...............................................................962-9151  
Airport Corporate Park................................................936-7397  
Alumni Relations.......................................................962-9473  
Arthur A. Houghton, Jr. Library...................................962-9251  
Athletics......................................................................962-9318  
College Store............................................................962-9322  
Enrollment Advisement Center.....................................962-9875  
(HISaid, registration, bills)  
Health Office.............................................................962-9257  
Honors Program.........................................................962-9202  
Housing Information...................................................962-9528  
Human Resources.......................................................962-9229  
Humanities & Social Sciences Division.......................962-9271  
Information Technology (Help Desk).............................962-9555  
Institutional Advancement............................................962-9458  
Intramurals & Recreation.............................................962-9476  
President....................................................................962-9232  
Professional Studies Division.......................................962-9239  
Public Safety..............................................................962-9000  
STEM Division............................................................962-9243  
Student Accounts.......................................................962-9490  
Student Development...............................................962-9264  
Student Accessibility Services.....................................962-9262  
Student/Residential Life..............................................962-9245  
Student Support Services............................................962-9459  
Student Transcripts.....................................................www.corning-cc.edu/transcript  
Veteran’s Services.......................................................962-9433  
Workforce Development & Community Education........962-9276
Calendar

The following calendar indicates important dates for traditional semesters. Courses offered at different times would follow a modified schedule. The Calendar is subject to change.

2020-2021

Fall 2020

Classes begin..............................................................August 17
No classes-Labor Day holiday ..................................... September 7
Early alerts submitted ............................................. September 13
Warning grades submitted..................................... October 4
No classes-Columbus Day break............................. October 12-16
Last day to drop a full-term course ......................... October 18
No classes-Thanksgiving break ......................... November 23-27
Last day of classes ................................................ December 5
Final examinations ................................................ December 7-12

Spring 2021

Classes begin.............................................................. January 19
Early alerts submitted ........................................... February 7
Presidents’ Day Break............................................. February 15-19
Warning grades submitted................................ March 7
Last day to drop a full-term course ..................... March 28
Spring break.............................................................. March 29-April 2
Last day of classes ................................................ May 8
Final examinations ................................................ May 10-14
Commencement ..................................................... May 15

Winter 2021 Session

Classes in session.................................................. December 14-January 14

Summer 2021 Sessions

Classes begin.............................................................. May 24
Last day of classes ................................................ August 6

Day and evening summer sessions of varying lengths are offered throughout the summer. Specific information is available from Enrollment Advisement Center.

College Closing

If the College closes due to inclement weather or other emergency, text messages are sent first. Students can register to receive emergency text notifications by texting CCCST to 64600. After text messages are sent, an announcement will be posted on the College’s website (https://www.corning-cc.edu), social media channels, and released to local radio and television stations.
Academic Policies and Procedures
These policies and procedures will guide and benefit you as you proceed through your studies. This section is arranged alphabetically for your convenience.

Consult the Enrollment Advisement Center (EAC) for assistance with interpretation of these policies. In matters where an educational judgment is necessary, the Enrollment Advisement Center or the appropriate Associate Dean can provide clarification. If you should disagree with the interpretation which you receive, the final source of appeal is the Provost. Please ask questions about any policy which concerns you.

Academic Policy Appeals
Any student has the right to appeal to the Educational Standards and Policies Committee for an exception to academic policies and procedures. The appeal process is readily available and each appeal is given careful individual consideration. The written appeal should clearly state the desired action and the reasons for the request. All appeals are submitted to the Enrollment Advisement Center where they will be forwarded to the appropriate individual for review. Educational Planners are willing to assist in preparing an appeal. An appeal form can be obtained from MyCCC on your student tab or from the Enrollment Advisement Center.

Academic Progress Policy
Standards of Academic Progress
The Standards of Academic Progress at Corning Community College require students to maintain a standard of progress to keep matriculation in a degree program and eligibility for financial aid. Good academic standing is important to all students. To be considered in good academic standing and make progress toward a degree or certificate, students must maintain a 2.0 grade point average and successfully complete 67% of their attempted credit/credit equivalent hours each semester. At least once each semester, students are encouraged to meet with their faculty advisor or with an educational planner in the Educational Planning Center to review their academic progress.

Matriculated CCC students (full-time and part-time) will be evaluated at the end of each fall and spring semester of attendance on the following criteria and must meet both the GPA and passed hours requirements to remain in good academic standing. If the standard of progress in not achieved, a student will be placed on academic probation or academic suspension as indicated in the chart.

Students should be aware that grades of A, A-, B+, B, B-, C+, C, C, D, F, and I, N, P, W, R, S, and U count as “hours attempted,” under the Academic Progress Policy. Passed hours include grades of A through D, and P.

How Academic Standing is Determined

a. GPA Requirements:
Students’ GPA will be used to determine their academic progress status based on total hours attempted as follows:

<table>
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<tr>
<th>GPA</th>
<th>0.00-1.09</th>
<th>1.10-1.40</th>
<th>1.41-1.60</th>
<th>1.61-1.99</th>
<th>2.0+</th>
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<tr>
<td>Total HA 29-32.5</td>
<td>Probation</td>
<td>Probation</td>
<td>Probation</td>
<td>Probation</td>
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<tr>
<td>Total HA 33-48.5</td>
<td>Suspension</td>
<td>Probation</td>
<td>Probation</td>
<td>Probation</td>
<td></td>
</tr>
<tr>
<td>Total HA 49+</td>
<td>Suspension</td>
<td>Suspension</td>
<td>Probation</td>
<td></td>
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Students meeting the GPA requirement for “Good Standing” must also pass 67% of hours attempted in the semester being evaluated. Students who do not pass 67% of hours attempted, in the semester being evaluated, will be placed on probation regardless of GPA.

Probation
Academic probation serves as warning that a student is in academic jeopardy. Students may be placed on academic probation either by their GPA, according to the above chart, or by not passing 67% of their attempted hours within a semester. Students placed on academic probation should meet with their faculty advisor or with an educational planner in Enrollment Advisement Center to discuss the requirements for good academic standing, to register for courses, and to create an academic success plan. A student placed on academic probation will be limited to 13 credit hours for the subsequent semester unless an Academic Progress Appeal is submitted and approved (see Academic Appeal Process below).

Suspension
Students will be placed on academic suspension when their GPA fails to meet the requirements of the above chart based on the total number of hours they have attempted. Academic suspension means that the student is no longer in a degree program, loses all financial aid, and is not eligible to return to CCC for one full academic semester. If the student had pre-registered for courses, his or her schedule will be deleted. A student placed on academic suspension at the conclusion of the fall semester may not enroll in the subsequent winter session or spring semester. Likewise, a student placed on academic suspension at the conclusion of the spring semester may not enroll in the subsequent summer session or fall semester. A student will remain on academic suspension until an Academic Progress Appeal has been submitted and reviewed by the Enrollment Advisement Center (see Reinstatement below).
Academic Progress Appeal

Students who are seeking a change in status and/or credit limit need to complete and submit an Academic Progress Appeal. As part of the appeal process, students must submit a plan for academic success that identifies the cause(s) of their poor academic performance and demonstrate that actions have been taken to avoid or eliminate these causes. To begin the appeal process, students should meet with their faculty advisors or an Educational Planner in the Enrollment Advisement Center to create a plan for academic success and to complete the Academic Progress Appeal. The Academic Progress Appeal is then submitted to the Enrollment Advisement Center where it will be forwarded to an Educational Planner for review. Academic Progress Appeals are available online or from the Enrollment Advisement Center.

Reinstatement

A student who has been placed on academic suspension may appeal this action if extenuating circumstances have led to the lack of progress toward a degree/certificate. As part of the appeal process, students must submit a plan for academic success that identifies the causes of their poor academic performance and demonstrates that they have taken actions to avoid or eliminate these causes. To begin the appeal process students must meet with their faculty advisor or an educational planner in the Enrollment Advisement Center to create a plan for academic success and to complete the Academic Progress Appeal. The Academic Progress Appeal is then submitted to the Enrollment Advisement Center where it will be forwarded to the appropriate individual for review. Academic Progress Appeals are available online and in the Enrollment Advisement Center.

When an appeal is granted, the student will be reinstated with probationary status. This status limits the number of credit hours for which the student may register. Once reinstated, a student will be re-evaluated at the conclusion of the semester in accordance with the Standards of Academic Progress, as noted above. Moreover, if a reinstated student earns a semester GPA of 2.0 or higher and has completed at least 67% of the hours attempted in that semester and still falls in suspension status, the student will continue with probationary status.

Readmission for Students with Load Hour Limits

a. Following a period of non-attendance at CCC for less than four semesters (not exclusive of summer and winter semesters), students must reapply to the College through the Admissions office. Any prior academic status and credit limit is still in place. Students who wish a change in status must complete and submit a Readmit Appeal to the Enrollment Advisement Center. If the Appeal is approved, the student will be enrolled in probationary status and be limited to the number of hours they can register.

b. If two or more years have elapsed since last attendance, students will be readmitted in good standing with no credit limit. However, subsequent academic progress will be reviewed in accordance with the policy, unless a student has earned a 2.0 or higher semester GPA and completed at least 67% of the hours attempted in the semester of the student’s return.

Adding Courses

Students can register for a course through their academic advisor or their MyCCC account. Registration occurs continuously throughout the academic year on a rolling semester basis. At the time of registration, course pre-requisites and enrollment capacity are checked. Once a course has started, it may be added only with the instructor’s permission. Usually courses cannot be added after the first week of classes. To submit an add request to the instructor for a course that has already started, the student submits an online add request through MyCCC.

Advanced Standing

Advanced standing may be granted to transfer students from other colleges or post-secondary schools, applicants with credit for lifelong learning and those who have shown proficiency in specific subject areas through standardized examination programs.

Animal Use In Courses Policy

Some majors-level courses and programs within the STEM Division require vertebrate dissection and/or the use of living animals. Unless required by a specific program, participation in dissection in non-majors courses within the STEM Division is not mandatory. Alternatives to dissection will be provided where necessary. Please see individual catalog descriptions for courses that require participation in this activity.

Appeals Protocol to this Policy:

- Objections to this policy will first be brought, in writing, to the Sciences Department Chairperson for discussion and a decision.
- If this decision is not satisfactory, the individual may refer the objection, in writing within five business days, to the Associate Dean of the STEM Division for a decision.
- If this decision is not satisfactory, the individual may refer the objection, in writing within five business days, to a committee composed of the Provost, one faculty member from the Sciences Department (other than the one teaching the course in question), and one Associate Dean (other than the Associate Dean of the STEM Division). The decision of the committee is final.

Attendance

Success in courses is directly related to attendance. Regular attendance in class and laboratory sessions is expected of all students; however, instructors determine student attendance requirements for their courses. These attendance requirements, along with their relationship to final grades, should be clearly stated in the course syllabus. Attendance also affects eligibility for financial aid, and it is important that students attend classes on a regular basis to avoid loss of financial aid.
Audit of a Course
Auditing a course means a student is not taking a course for credit, is not required to submit assignments or take tests, and any assignments submitted might not be graded by the instructor. A grade of T will be given to a student auditing a course. A student may audit a course on a space-available basis and with the permission of the instructor. The decision to audit a course must be declared at the time of registration for the course. Enrollment for students auditing a course begins two weeks before the course starts. The last day for adding an audit course will be the same as that for adding any course for credit. The student may retake such a course for credit in a subsequent semester, but may not receive a grade other than T in the semester in which the intent to audit has been declared. Students auditing a course pay a non-refundable fee and any lab or other course fees. Any person over 55 years of age can audit a course without paying the audit fee, though lab or other course fees still apply. In all cases, since fees incurred with auditing a course are non-refundable, students do not drop or withdraw from an audited course.

Catalog Changes
CCC’s Course Catalog and Information Guide is compiled and published each academic year during the spring semester. The policies and procedures contained in the catalog are in effect as of August of the academic year of the catalog. Every effort is made to ensure the information provided in the catalog is accurate and current at the time of publication. CCC reserves the right to correct errors and to add, withdraw, or modify programs or courses based on changing needs or circumstances consistent with SUNY and NYS Education Department policy. Changes will be posted in the addendum section of the catalog as they occur. If policy or procedure changes are made during the academic year that take effect during the current catalog’s time-frame, the change will also be posted to the addendum section of the catalog.

Changing Programs
Students who wish to change from one program to another should begin by meeting with their advisor. Forms necessary for recording a change of program are available from MyCCC, advisors, or the Enrollment Advisement Center (EAC). Program change requests require a student’s and an advisor’s signature and are submitted to the Enrollment Advisement Center. Program change requests must be submitted prior to the fourth week of classes to apply to the current semester. Any requests after that time will be processed at the end of the current semester and take affect at the start of the following semester.

Course Cancellations
Weather: On days when the weather is inclement, College officials will make every effort to announce class cancellations no less than two hours prior to the affected class. Register for emergency text alerts or visit www.corning-cc.edu.

Instructor absence: When an instructor is absent and the class is cancelled, a notice will be posted on MyCCC or an email will be sent to the class, if time permits. Furthermore, the appropriate division secretary will post an official notice of class cancellation using a standardized printed poster. If there is no notice and an instructor does not appear during the first ten minutes of a class, students may leave.

Insufficient enrollment: If registration in any course is insufficient, the course may be cancelled at the discretion of the Associate Dean of Instruction and/or Provost.

Course Shelf Life
It is important that CCC graduates have the most current knowledge and skills required in their field of study. Skills acquired in a course previously taken are subject to course shelf life limitations as stipulated in the course description found in the College catalog. Any course used to meet a program requirement will need to be repeated if its course shelf life has been exceeded. A student repeating a course due to the course shelf life policy will pay full tuition charges for the course. The course will count towards the student’s requirements and enrollment status for determining financial aid eligibility. (Also see Repeat Courses information). Transferability of courses from other institutions would follow the same shelf life requirements as approved for CCC courses. Any appeals are to follow the current policy and procedure used for course waivers and substitutions.

Course Substitutions
Under special conditions, other courses can be substituted for program requirements. Inquiries should be made to the Associate Dean of the academic division that oversees the program. When necessary, consultation will be made with the Associate Dean overseeing the course being considered for substitution.

If determination is made that a suitable course can be substituted, the Associate Dean overseeing the program will notify the Registrar.

Course waiver requests for wellness course (HLTH, PFIT, PEPD, WELL) requirements should be initiated through the Associate Dean of the Professional Studies Division. If the course waiver is due to a medical condition, the College Nurse, located in the Health Office, will initiate the waiver. Any waivers for the wellness requirements will then be sent to the Associate Dean of the Professional Studies Division.

Course waiver requests for foreign language requirements should be initiated through the Associate Dean of the Humanities and Social Sciences Division. An educational planner for Accessibility Services will be consulted when a documented disability is the basis for the request.
Credit / Advanced Standing

Some students come to CCC already having proficiency in one or more courses. Credit can be received for prior course work, life experience, or examination. When considering students for advanced standing, the College is guided by the recommendations of the American Council on Education and the American Association of Collegiate Registrars and Admissions Officers and reserves the right to evaluate all academic work in terms of current validity. The learning experience must be at the college level.

Degree candidates must complete a minimum of 30 program hours of credit in residence at CCC. Fees are assessed for many of the methods listed below.

There are several methods by which credit is granted:

1. Transfer Credit

Credit-bearing transfer courses (at C level or above) may be accepted from any regionally accredited, candidate, or correspondent institution of higher education or NYS Education Department chartered degree-granting institution. There shall be no limit on the number of transfer credits accepted. However some programs have special requirements regarding transfer credit.

Transfer credit can be awarded for course work taken from a foreign institution. The transcript from the foreign institution must be evaluated by an approved agency (World Education Services). The foreign institution must be accredited and a grade of C or better must have been achieved for the course work.

Credit for military or other training programs may be earned through any of the following means: military course work, non-collegiate institution sponsored courses/workshops as recommended for credit by the American Council on Education, course work approved by the New York State Education Department (National College Credit Recommendation Service [NCCRS]) or a CCC approved training programs offered through industry.

An applicant who has attended other colleges, post-secondary schools, or the military and who wishes to receive transfer credit for work completed must provide the Admissions Office with an official transcript from each school/organization. A student must complete a minimum of 30 program hours of credit for a degree at CCC. For certificate students, 50% of the program hours of credit must be completed at CCC.

2. Credit by Examination

Credit may be awarded to students who earn an appropriate grade in any of the following exams: CCC challenge exams, Excelsior College exams, Advanced Placement exams offered through the College Board, International Baccalaureate Exams, College Level Examination Program (CLEP) and DANTES/DSST exams. In some cases, CCC course work or other demonstration of skills may be required before credit is granted. You may obtain credit for these courses by successfully completing the exam (provided the academic divisions have comprehensive examinations available). Your transcript will show the credit earned. No letter grade is given; this credit will not affect your GPA (Grade Point Average).

There is no limit to the amount of credit that can be earned in this manner; however, this credit does not apply to the residency requirement. Make arrangements through the appropriate academic division. Contact the Admissions Office or an academic advisor for information.

3. Articulated Credit

Articulated credit is earned via industry licensures, credentials, and certification. Students are encouraged to present any credentials they’ve earned to the appropriate Associate Dean of Instruction. If determined eligible, credit will be awarded to the student’s CCC transcript as CR. Credentials will be evaluated based on the College’s transfer policies. Contact the Admissions Office or an academic advisor for information.

4. Credit for Prior Learning

To demonstrate learning done out of the classroom, students also have the option of creating a portfolio targeting the specific course outcomes of a needed class. Corning Community College follows the Council for Adult and Experiential Learning (CAEL) guidelines for individual portfolio development. Students who plan to complete a portfolio must have college credit for ENGL1010, College Composition I. Students should discuss this option with the Associate Dean of Instruction for the appropriate academic division. Not all colleges will accept credit for portfolios, so students who plan to transfer should check with their prospective transfer college(s). Credit through portfolio assessment is granted by an academic division. Persons who have gained college-level learning through work or other experiences may demonstrate that knowledge through various methods (performance, oral, or written). These credits are not considered CCC residency credits, but are treated as transfer credit. See Admissions or an academic advisor for information.

Credit for Military or Other Training Programs

See Transfer Credit or Credit for Prior Learning. For consideration of credit for military service, submit an official academic transcript to the Office of Admissions.

Credit Through Portfolio Assessment

See Credit for Prior Learning.
Dean’s and President’s Lists

To be eligible for Dean’s List for a given semester, a student who is registered full-time for that semester must:

1. Be matriculated to an academic program
2. A semester GPA of 3.5 or higher
3. Twelve or more hours of earned credit (equivalent credit hours are not included)
4. No grade lower than C
5. No I or N grades

A part-time student must be matriculated to an academic program, have accumulated twelve earned credit hours since matriculation (excluding equivalent credit hours) by the end of the semester, have a semester GPA of 3.5 or higher, have no grade lower than C that semester, and have no I or N grades for that semester.

Following the accumulation of twelve earned credits (excluding equivalent credits), a part-time student is eligible each semester that she or he remains matriculated to an academic program, earn six or more credits (excluding equivalent credits) that semester, has a GPA of 3.5 or higher for that semester, has no grade lower than C for the semester, and has no I or N grade for that semester.

To be eligible for President’s List for a given semester, students must meet all the following criteria:

1. Matriculated to an academic program
2. A semester GPA of 3.75 or higher
3. Twelve or more hours of earned credit (equivalent credit hours are not included)
4. No grade lower than C
5. No I or N grades

Part-time students will be considered for President’s List in a semester in which they have earned at least six credit hours of course work during the semester in accordance with the above requirements.

A student who completes an incomplete (I) will be awarded Dean’s or President’s List status retroactively in the semester in which the I was originally assigned, if all other criteria are met.

Developmental Progress Policy

Developmental Placements

All CCC college-level courses require proficiency in reading, writing, mathematical, verbal or other skills. To help students enroll in courses best suited to their skills, assessments are used to determine appropriate courses. When learning needs are identified, students are required to take developmental courses. Developmental courses are credit-equivalent courses, meaning that they count towards the student’s load hours for full-time status and financial aid, but they do not meet program requirements and are not calculated in the Grade Point Average (GPA).

Developmental Progress Policy

Based on placement, students may be required to take ENGL 0980, or the ENGL 0999/1010 support combination and take MATH 0860, 0960, 0970, or 0980 before taking a credit class. If students are placed into ENGL 0980 Reasoning, Reading, and Writing for Academic Studies, they will receive instruction in both reading and writing strategies; the grade is either fail or pass. Students earning the minimum pass in ENGL 0980 are required to take ENGL 0999/1010 co-requisite. Students with consistent high-quality coursework will be reviewed for ENGL 1010 alone.

If a learning need is identified in mathematics, students must register in MATH 0860 (Basic Math Review), MATH 0960 (Pre-Algebra), MATH 0970, or MATH 0980, as determined by the placement process. Students placed into these courses must complete MATH 0860 or MATH 0960 with a grade of B- or higher and MATH 0970 or 0980 with a grade of C or higher.

Upon successful completion of developmental courses, the student will be prepared to take college-level math, MATH 1110 or higher. Even if a program does not require a credit-bearing mathematics course, students must demonstrate entry-level college mathematics skills through assessment or by passing MATH 0860, 0960, 0970, or 0980 before they graduate.

All full- and part-time students placed in one or more developmental classes will also be placed in FYEX 1000 (First Year Experience, 3 credit hours).

Students (new and continuing) placed in any developmental courses will be limited to no more than a 16 hour load until they have successfully passed these developmental courses. Credit and equivalent credit count toward the 16 hour limit.

Students who are placed in any developmental courses based on an assessed need should enroll in the appropriate course(s), including FYEX 1000, in their first semester. Students who do not successfully complete their developmental course(s) and FYEX 1000 in their first semester must re-register for them in their second semester.

A list of students who are expected to complete developmental courses and FYEX 1000 in three full-time (or equivalent) semesters will be reviewed to determine if dismissal is warranted. Those students who are dismissed (developmental dismissal) can register for further study at CCC only under the following conditions: (1) one year has elapsed since dismissal and (2) they meet the current institutional placement practices. Developmental dismissal may be challenged by a student by submitting an appeal to the Educational Standards and Policies Committee. For further information regarding this policy, contact the Enrollment Advisement Center.
Dropping a Course

Process:
The College realizes that students sometimes need to drop courses after classes begin. Students who have begun attendance in a course may drop the course without the instructor’s signature. To drop a class the student submits an online drop form through MyCCC.

Before dropping any course it is strongly recommended that the students:

1. Discuss the decision with their instructor, advisor, and/or coach.
2. Check with the Educational Planning Center to determine any effects on financial aid, billing, academic progress, and/or developmental progress.
3. The date the Educational Planning Center is notified of the drop will be the official drop date.

Deadline:
A course can be dropped until 60% of the length of the course. For clarification of exact deadline dates, see the course instructor or a representative of EAC. All student drops submitted after the official drop date must have the approval of Provost. After 60% of the length of a course has passed, students still have the option of officially withdrawing from the College (see Withdrawal from College).

Academic Record
A course dropped in the first 20% of the length of the course will not appear on the student’s academic transcript. Courses dropped between 20% and 60% of the length of the course will appear on the student’s academic transcript with a W indicating “withdrawal.” After 60% of course has passed a course may not be dropped and a final grade will be recorded on the student’s academic transcript.

Drops by Instructor
Faculty members may drop students from their courses for non-attendance. Refer to the course syllabus and instructor.

Early Alert
Within the first three weeks of each semester, faculty identifies students who are showing signs of problems that could result in their being unable to successfully complete the course. The faculty will specify areas of concern (i.e., attendance, preparation, effort, etc.) and report them to Enrollment Advisement Center. Students who are identified receive an email notification that specifies the area of concern along with suggestions for improvement. Contact Enrollment Advisement Center for more information.

Email
Students and employees are given a CCC email account. The College uses email as an official communication tool. As the College may send official correspondence to users via electronic mail; students, faculty, and staff, are expected to maintain available space in their @corning-cc.edu email account and are responsible for regularly reading any such correspondence as may be transmitted. For more information, refer to the College’s Acceptable Use Policy which can be found in MyCCC.

Final Exams
The last week of the fall and spring semester is final exam week. Courses that run through the last week of these semesters will have a final exam scheduled in a three-hour time block. Final exams for evening and weekend courses will be held in the course’s last regularly scheduled class period and regularly scheduled room. Internet courses may have a final exam time scheduled. Refer to the course instructor for information. For courses that do not run through the last week of the fall and spring semester and for classes in the winter and summer semesters, final exams are arranged by instructors with their students.

The final exam schedule will be posted in MyCCC. Students who have exam time conflicts should see their instructor.

Cancellations
If a day of classes is cancelled during Final Exam week, the day shall be made up on the Monday of the following week. If multiple days are missed during Final Exam week, the second day missed shall be made up on Tuesday of the following week and so forth.

Fresh Start
Fresh Start provides an opportunity for students who left the College after experiencing academic difficulties to continue their studies with their GPA set to 0.0. Students are eligible for Fresh Start if they meet the following requirements:

1. Their GPA was below 2.0 when they left the College.
2. One calendar year has elapsed since their last attendance at CCC.
3. They have achieved a 2.5 GPA in the first 12 credits earned (excluding developmental and wellness activity courses) upon returning to CCC. If more than 12 credits are earned, then all earned credits (excluding developmental and wellness activity courses) up to and including that semester will be used to calculate GPA.
4. They have completed all developmental coursework and have no outstanding incompletes.

They must complete and submit an application for a Fresh Start to the Enrollment Advisement Center.

Students may apply for Fresh Start only once. It cannot be applied to a previous degree. If granted Fresh Start, there may still be implications for financial aid, veteran’s benefits, and transferability. Once granted, Fresh Start may not be rescinded. All course work will remain on the transcript with the notation, “Fresh Start
Granted.” No prior course work grades will be used in the calculation of the student’s GPA. Students will receive credit for the courses in which they achieved a C or better so that these credits can be used in program evaluations. Any prior course work in which students have earned a D grade cannot be used to meet degree requirements. Credits for courses in which a C or better has been achieved in work prior to the Fresh Start cannot be used to fulfill residency requirements. Once Fresh Start is granted the GPA will be calculated with grades received only since the student’s return to the College. For more information or to apply, contact the Enrollment Advisement Center.
State University of New York (SUNY) General Education Requirement

SUNY requires students intending to receive a baccalaureate degree from a SUNY college or university to fulfill specific general education requirements. At least 30 credits must be earned in courses approved in the following ten areas: mathematics, natural science, social science, American history, western civilization, other world civilizations, humanities, arts, foreign languages, and basic communication.

CCC students in Associate in Arts or Associate in Science programs, except the Engineering Science program which is waived from the requirement, will be able to complete seven of ten SUNY General Education Requirement academic areas (including mathematics and basic communication), two competency areas, and 30 credits of SUNY General Education courses in all transfer programs. Once certified as meeting these general education requirements at CCC, students will not be required to complete them again upon transfer to any baccalaureate granting SUNY institution. Courses which have been approved as meeting the general education criteria are identified in their course description. On the following page is a chart indicating approved CCC courses and the approved SUNY general education category it fulfills.

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<th>Mathematics (M)</th>
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<th>Social Sciences (SS)</th>
<th>American History (AH)</th>
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<td>Other World Civilization (OWC)</td>
<td>Humanities (H)</td>
<td>The Arts (A)</td>
<td>Foreign Language (FL)</td>
<td>Basic Communication (BC)</td>
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*This course appears in more than one knowledge and skill area, but can be used to fulfill only one requirement.
Grades

Grades, as follow, will be issued at the end of each semester.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
<th>Achievement in Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
<td>Comprehensive knowledge, understanding, marked perception, originality</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>Moderately broad knowledge, understanding, noticeable perception, originality</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td>Reasonable knowledge, understanding, some perception, originality</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td>Minimum knowledge, understanding, limited perception, originality</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
<td>Unacceptable knowledge, understanding, failing work</td>
</tr>
</tbody>
</table>

The following grades and notations are not used to determine GPA:

- **H** Honors work. Appears next to course.
- **I** Incomplete. May be assigned at the discretion of the instructor in special circumstances in which course requirements have not been completed by a student who has clearly demonstrated potential for successfully completing the course. A written statement of requirements for completing the course must be given to the student and the faculty member’s Associate Dean. Credit hours and grade points are not assigned for an I grade. When the requirements have been completed, the faculty member will submit a grade change from the I to another letter grade. Course requirements for the I grades must be completed within one calendar year; however, the instructor has the prerogative of establishing an earlier deadline.
- **N** No grade/no credit.
- **P** Passing work at a C level or higher.
- **R** Official withdrawal from College.
- **S** Satisfactory. For courses not counted for degree credit.
- **T** Audit.
- **U** Unsatisfactory. Courses not counted for degree credit.
- **W** Official withdrawal from course.

Grade Point Average (GPA)

Each graduating student must earn a minimum 2.0 grade point average. To determine a grade point average (GPA), divide the total number of grade points earned by the number of credit hours taken. For example:

\[
\text{ENGL1020} \quad 3 \text{ cr. hr.} \quad A (4.0 \text{ pts}) = 12.0 \\
\text{HIST1110} \quad 3 \text{ cr. hr.} \quad C+ (2.3 \text{ pts}) = 6.9 \\
\text{MATH0860} \quad 1 \text{ cr. hr.} \quad P (\text{no value}) = 0.0 \\
\text{MATH1110} \quad 3 \text{ cr. hr.} \quad F (0.0 \text{ pts}) = 0.0 \\
\text{RECC1010} \quad 1 \text{ cr. hr.} \quad B (3.0 \text{ pts}) = 3.0 \\
\text{11 cr. hr. total pts.} = 21.9 \\
\text{10 credits have point value}
\]

Dividing 21.9 points by 10 credits equals 2.19 GPA

For each credit hour, points are assigned based on the grade received. This average is calculated by dividing the total grade points earned by the number of credit hours taken. For repeated courses, the most recent grade is used in the calculation. For students granted Fresh Start status, only grades earned upon return to CCC will be calculated in the GPA. Developmental courses are not calculated in the GPA.

Program Grade Point Average (PGPA):

Each graduating student must earn a minimum 2.0 program grade point average. The PGPA will be determined by calculating the grade point average of the courses used to fulfill the program requirements as outlined in the College catalog and based on only those courses used to meet program and degree requirements, including program electives and free electives. Transfer credits are not calculated in the PGPA.

Grading Practices

Grades are due 72 hours after the last date of term. If you have questions about your grade or wish to pursue a grade dispute, make an appointment with the instructor so that you can discuss the reason for your grade. Only the faculty member(s) who awarded the grade can authorize a change, with approval of the Division’s Associate Dean of Instruction. You are entitled to know the basis upon which you are graded.

If you are not satisfied with the resolution of the grading problem after talking with your instructor, you have the right to discuss the matter with the division's associate dean. If you are still not satisfied with the resolution of the grading problem, the final appeal rests with the Provost.

Time Limit for Grade Change

A student has the right to challenge a final grade given by a faculty member within one year of the awarding of the grade. If a faculty member is unavailable, you can discuss this matter with the appropriate Associate Dean. After the one-year time limit has passed, all grade changes must be requested by submitting an academic appeal to the Educational Standards and Policies Committee (see Academic Appeals for process information).

Graduation Application and Review

A full semester before intended graduation, students should complete a graduation application and check with the Enrollment Advisement Center. Their academic record will then be reviewed to determine that all degree requirements are met. It is the student’s responsibility to make certain that all requirements for graduation have been met.

Students have the right to come under the regulations published in the catalog in effect during the first semester of their matriculation at CCC or, if they choose, a catalog published after they have matriculated at CCC.
Graduation Requirements
Each graduating student must:
- Complete all of the requirements for the program as described in the catalog; and,
- Complete a minimum of 60 semester credit hours for degrees and the minimum required semester credit hours for certificates, (some programs require more than 60 credit hours); and,
- Earn a minimum 2.0 PGPA and a minimum overall 2.0 GPA; and,
- Meet the College’s Residency requirement of 30 program credit hours for degrees and 50% of program credit hours for certificates.

Graduation honors
- Summa cum laude: students must have a GPA of 3.9;
- Cum laude: students must have a GPA of at least 3.5;
- Program Honors: graduates must have a Program Grade Point Average (PGPA) of at least 3.5. The award will be presented to the graduate with the highest PGPA in each program.
- Phi Theta Kappa: to wear the gold PTK stole at commencement, students must have completed all graduation requirements with a total GPA of 3.5 or higher and be a member of PTK.

Any student within six credit hours of completion of the degree or certificate and who has a minimum PGPA of 2.0 at the time of commencement will be allowed to participate in commencement exercises. The degree or certificate will be conferred and the diploma will be issued in August, January or May following completion of all requirements.

Independent Study
These courses are supervised by instructors with permission of the appropriate Associate Dean. Interested students should contact the Instructor to find out if an independent study in a given subject area is possible. Once approved by the Instructor and the Associate Dean, the student adds for the course through MyCCC.

Multiple Programs
Students may be permitted to earn more than one degree or complete the requirements for more than one program. You can initiate that action by completing a program change form or meeting with the Associate Dean responsible for the new program. A degree can be awarded only once, but more than one program can be earned within any degree. It is recommended that students consult with financial aid before pursuing multiple programs.

The requirements for earning multiple programs are:
- All of the requirements for each program must be met.
- At least 15 additional credit hours must be earned for each additional program, at least nine of which have been earned in residence at CCC.

Pass/No Grade-No Credit Option
Students who have been named to the President’s List or Dean’s List may enroll the next semester in any one free elective course under the pass/no grade option. This course will not affect the GPA, and it will be noted as pass/no grade on the transcript. When choosing this option, students must notify the Enrollment Advisement Center within two weeks of the beginning of the course in a 15-week semester (or equivalent). If, by the end of the 13th week (or equivalent), the student wishes to receive a standard grade, they may do so by notifying the Enrollment Advisement Center. Students can continue to use this option as long as they remain on the President’s List or Dean’s List. This option will be used for free electives only; however, if a student subsequently changes programs, courses with the P grade, already taken, can fulfill the new program’s requirement.

Placement into Courses
Except in special circumstances, students entering CCC are assessed to determine their level of reading, writing, and mathematical ability for placement into appropriate entry-level courses. The course number of a developmental course will begin with a zero. If students are placed into and required to take a developmental course, they will be monitored under CCC’s Developmental Progress Policy.

Posthumous Degree Policy
Corning Community College may award a posthumous degree as recognition of a student’s academic achievement that would have resulted in a degree, except for the occurrence of death. At the request of the family or a campus representative, a posthumous degree is possible. To receive a degree on the basis of the posthumous degree program, the following criteria must be met:
1. At the time of death, the student was enrolled in courses that would complete all degree requirements.
2. The instructors in those courses believe that the student would have successfully completed the courses.
3. The academic division recommends the awarding of the degree.
4. The Faculty Assembly approves the awarding of the degree.
5. The Provost approves the awarding of the degree.

Registration
In order for a student to receive credit in a course, the student must be properly registered for that course. Enrollment in a course is not official until proper registration materials have been filed with the Enrollment Advisement Center. Also see Add a Course, Auditing a Course, and Dropping a Course.

Blocks to registration: Further registration in courses may not be permitted until outstanding requirements are met. Examples of reasons for students’ registrations being blocked are satisfying the College’s academic, developmental, health and financial requirements.
Online Registration: Online registration is available through MyCCC. Most continuing students in good academic standing will be permitted to register online during open registration periods. Students who meet with an academic advisor will be permitted to register prior to open registration. First-time, full-time students, students with pending developmental requirements and students who are not in good academic standing are strongly encouraged to consult with an advisor before registering for courses. Student-initiated online registration will be blocked for courses requiring instructor consent and courses for which prerequisites have not been met.

Repeat Courses

A student may repeat a course for a letter grade. For any repeated course the original grade together with the repeat grade will be recorded on the student’s transcripts, but only the most recent grade (exclusive of a W or R), even if it is lower than the original grade, will be used to compute the GPA. If the student repeats the course due to an expired shelf life, the new grade will be used in the calculation of the student’s PGPA.

Students should note: because the most recent grade is used, if they repeat a course and earn a lower grade, their GPA will go down. Likewise, if they fail the course or earn a grade that does not fulfill the requirement, they risk having to take the course once again.

The TAP award will count repeat courses toward full-time attendance if a student earns a D or higher in a course with shelf life or a course required to continue in a program. However, if a student repeats a course in which he/she earns a D or higher and the course does not have a shelf life or the shelf life has not expired, the student must have 12 or more hours of other courses to be considered a full-time student for TAP.

For questions about repeat courses, contact the Enrollment Advisement Center.

Residency Requirement

Students who are New York State residents qualify for the New York resident tuition rate. To qualify for the resident tuition rate, a student is required by law to present, once each academic year, a residency certificate indicating that he or she has been a legal resident of the State of New York for one year, and of a New York county for at least six months prior to attending CCC. If a student lived in more than one New York county for the six months prior to attendance at CCC, the student must apply for a residency certificate from each New York country in which he or she lived.

A Certificate of Residency issued by the student’s home country entitles the student to pay the resident tuition rate to attend the College and not the higher, non-resident tuition rate. A Certificate of Residency obtained from a student’s home country is the only proof of residence that qualifies a student for in-state tuition.

A student may also be eligible for resident tuition regardless of their permanent domicile if, within the last five years, he or she received a GED from New York State OR graduated from a New York State high school which he or she attended for at least two years. Please note that a Certificate of Residence issued by the home country will still be required as explained above.

If a student moves to NY State for the sole purpose of attending college, the student does not qualify for the resident tuition rate.

A student may apply for a Certificate of Residency no earlier than sixty (60) days before the start of the semester, and no more than thirty (30) days after. That gives a student a 90-day window in which to obtain the certificate. Counties are permitted by law to refuse applications after the 30th day of the semester. Many counties adhere to this deadline with NO EXCEPTIONS.

Note: As each county may handle residency applications differently, it is important that the student check the county’s requirements for applying for a Certificate of Residency. It is the student’s obligation to ensure that they are familiar with and have complied with their county’s requirements for a Certificate of Residency. There are printed instructions on the back of the standard residency application for New York counties provided by the College. These instructions were valid at the time of printing. However, counties may change their requirements periodically. Students are strongly encouraged to check their county’s websites for the most up-to-date instructions for a Certificate of Residency.

Standard residency applications will be mailed to all students before the beginning of the fall semester and to all new students before the beginning of the spring semester. Students may also obtain a standard residency application at the Enrollment Advisement Center or the Student Accounts Office.

The application must be completed by the student, notarized, and submitted to the Student Accounts Office no more than 30 calendar days into the semester. Both Student Accounts and the Enrollment Advisement Center will send the completed, notarized residency applications to the Country Treasurer of the country in which the student resided. The County Treasurer will then issue a residency certificate to the College on behalf of the student.

Note: Tuition bills will include non-resident charges for students who have not submitted a valid Certificate of Residency to the Student Accounts Office. Non-resident charges DOUBLE the tuition portion of the bill. Students will be liable for the non-resident charges if they fail to obtain and submit a Certificate of Residency by the thirtieth day after the start of classes.
Semester Schedule Limits and Course Loads
The minimum full-time load is 12 load hours, usually four courses. An average load is 15 credit hours. If you take fewer than 12 load hours a semester, you are a part-time student. Permission from the Associate Dean of Instruction of the student’s program is required to take more than 19 hours. Students who plan to work while taking classes should talk with their academic advisor or Educational Planner to realistically plan how much time can be committed to college studies, work obligations and home responsibilities.

Most associate degree programs require 62-72 credit hours of coursework. In order to graduate in two years a student should plan to take 15-18 hours per semester. Each hour of work in class can be expected to require at least two hours of study outside of class. Students with no outside employment or other major responsibilities can generally carry a full-time load. If a student intends to work more than 15 hours a week, the College recommends that the student reduce academic load and plan to take more than two years to complete a degree.

Recommended levels of work and study are as follows:
- If you work 1 to 10 hours per week, CCC recommends you schedule 13-16 credit hours.
- If you work 11 to 20 hours per week, CCC recommends you schedule 9-13 credit hours.
- If you work 21 to 30 hours per week, CCC recommends you schedule 6-9 credit hours.
- If you work 31 to 40 hours per week, CCC recommends you schedule 3-6 credit hours.

Student Progress Policy
See Academic Progress Policy

SUNY Cross-Registration Policy
Corning participates in SUNY’s cross-registration program, which allows students the opportunity to take courses at other participating institutions while enrolled at CCC. Students may cross-register for courses provided they meet the rules, procedures, fees, and deadlines. It is important to be aware that each institution sets its own policies, procedures, registration dates and deadlines, and fees related to cross-registration. It is the responsibility of the students to be aware of these conditions before they cross-register at any SUNY institution. Any registration that occurs prior to the posted registration date will not be converted to a cross-registration. Priority registration dates are designed to serve native students taking courses at CCC. More information about SUNY Cross-Registration can be found at https://www.suny.edu/crossregister/index.xhtml.

Transcript of Courses
An official academic record listing courses and grades for each student each semester is kept in the Office of the Registrar. Refer to www.corning-cc.edu/transcript to request an official transcript. Students can access their unofficial transcript through their MyCCC account. Any student who has not satisfied obligations to the College may have the transcript of record withheld until such obligation is satisfied.

Transfer Credit
See Credit/Advance Standing

Warning Grades
At mid-semester, students with D or F averages in any course will be notified of their standing. This grade is only to encourage those students to get help in the course and is not an additional grade on their records. Students who get a warning grade should go immediately their instructor or advisor to discuss what to do about it. Tutoring help, study skills help, or seeing an educational planner for assistance are possible solutions. Contact the Enrollment Advisement Center for further information.

Withdrawal from College
Official withdrawal from the College is possible any time prior to the start of final exams. Obtain withdrawal information from the Enrollment Advisement Center, or an advisor. An exit interview with an Educational Planner is strongly suggested and should be arranged at the Enrollment Advisement Center.

To officially withdraw from College, the student must notify EAC by submitting an online drop request for each registered course through his or her MyCCC account. The date EAC is notified is the official withdraw date.

Before withdrawing it is strongly recommended that students discuss the decision with their instructor, advisor, and/or coach, and check with the Enrollment Advisement Center to determine any effect on their financial aid, bill, academic progress, and academic record.

A grade of R may be placed on the record for each course being taken at the time of withdrawal. If there are any outstanding obligations, your academic records will be held until they are satisfactorily fulfilled; until that time no transcript requests will be processed.

Withdrawal from Courses
See Dropping a Course
Writing-Process and Writing-in-Content-Areas Courses
To uphold its commitment to the continuing development of students’ skills in written communication, CCC has designated courses as
Writing-Process (WP) or Writing-in-Content-Areas (WCA) if those
courses meet the following criteria (see glossary).

Accelerated College Education Program (ACE)
ACE is a concurrent enrollment program for high school students who
have a strong academic background. The program is nationally
accredited through the National Alliance for Concurrent Enrollment
Partnership (NACEP) and is one of only 72 two-year colleges in the
country to have achieved this status.

Students take college-level courses at their home high school and earn
SUNY Corning Community College (CCC) credits at a substantially
reduced tuition cost. These credits generate a CCC transcript and
transfer directly to Corning Community College.

Students must meet the prerequisites for the courses, as described in
the course section of this catalog. If a course requires eligibility to
enroll in ENGL 1010 and the student has not taken that course, he or
she must demonstrate proficiency through basic skills assessments in
reading and writing.

For more information about the program, and cost savings
students can benefit from, please contact the Office of Academic
Outreach at (607) 962-9491; or visit the ACE website at
www.corning-cc.edu/ace.

Honors Program
The Honors Program offers motivated students the opportunity to
sharpen their research skills, broaden their knowledge across
disciplines, and create unique projects tailored to their specific
career goals and academic interests while collaborating with other
students and in cooperation with faculty. In pursuit of academic
excellence, students will be challenged to think critically,
creatively, and in divergent ways.

Eligibility:
Entering freshmen with a high school GPA of 3.5 or equivalent and
CCC students with a cumulative GPA of 3.5 and at least 12 credit
hours earned are eligible to take Honors courses, either toward an
Honors diploma or to simply enhance their academic work across
disciplines.

Honors Courses:
Any student who is Honors-eligible can enroll in an Honors
course whether he or she intends on completing an Honors
diploma or not. Honors courses fall into the following categories:

Existing courses taken for Honors credit:
Any CCC course can be taken for Honors credit provided that the
student and instructor agree on the additional curriculum and work
that must be completed in order for the student to earn honors credit.
To take an existing course for Honors credit, an interested student
should approach his or her instructor within the first five weeks of the
semester and ask if he or she can take the course for Honors credit.
The student and instructor should write up and sign a brief “Honors
Contract” that outlines the addition-al curriculum, work and
instructor-student contact time that the student must complete, and
the content should be forwarded to the Honors Program Coordinator
for approval by the Honors Committee.

Honors Service Learning and Independent Study:
Service Learning and Independent Study courses can also be de vel-
oped for Honors students. Eligible students who are interested
should meet with the appropriate instructor and discuss the
parameters of such a course. If the instructor agrees, an “Honors
Contract” should be drawn up and submitted as described above.

Honors Diploma:
To earn an Honors Diploma, a student must complete no fewer than
15 credit hours of Honors course work, from the type of Honors
courses listed above. Up to three credits can be taken as Service
Learning or Independent Study.

Presidential Scholar
The Presidential Scholars award goes to First-time, full-time
applicants ranked in the top 10% of their graduating class; earning
Regents diplomas from one of the designated high schools for 2019;
residing in Chemung, Steuben, or Schuyler county; and graduating in
June prior to their entry into SUNY CCC. See the website for
details: https://www.corning-cc.edu/presidential-scholars.
Admission

Corning Community College offers support services to help applicants find areas of study best suited to their interests, aptitudes, and abilities. Those who have previously done well in school can expect challenge and growth at CCC. Those who may need assistance developing reading, writing, or mathematics skills will find support and services are available here to help build the foundation which leads to success in college.

Application Process

Please refer to the Office of Admissions official web page for the current application process at https://www.corning-cc.edu/apply. Those who wish to have an interview should contact the Office of Admissions for an appointment. All accepted students will be informed of assessment, advising, and orientation procedures.

Before a student can be considered as an eligible candidate for a degree or certificate, a student must be matriculated. Non-matriculated students may take a full time course load. However, non-matriculated students are strongly recommended to matriculate as programs of study and requirements may change. Admission policies are the same for full- and part-time status.

- Full-time (12 credit hours or more)
- Part-time (11.5 credit hours or fewer)

Students enroll without having definite plans for the future. Academic advisors or Educational Planners offer guidance and support, and they can help select appropriate courses for the first semester. Applicants interested in career planning services may contact the Enrollment Advisement Center for assistance in the career decision-making process.

Many students take a course or two for their own interest or because other obligations preclude full-time study. Students planning to attend as a non-matriculated student are not required to go through the admission process and can enroll for courses by registering through the Enrollment Advisement Center.

Students who are working toward a degree or who will be applying for financial aid need to complete the application process described on the College’s official web page.

Admission Policy

1. Preliminary Education Requirements

Applicants for matriculation must have a diploma from an accredited high school; equivalency diploma (i.e., GED, TASC, or EDP); certification of completion of a four-year high school course as a home schooled student; or an associates or higher degree from a regionally accredited post-secondary institution (AOS degrees are not considered for matriculation purposes but students may receive transfer credit if applicable). Applicants who have attended post-secondary institutions must request an official transcript be sent to Corning Community College. An official transcript from each previously attended institution must be received in order to grant transfer credit. Admission into certain programs may require additional prerequisites. See program descriptions for details.

2. Correspondence Schools

As of March 2008, we will only accept correspondence school degrees if the student resided in the correspondence school’s state at the time of schooling and the school is registered with the department of education in that state.

Applicants who have completed an out of state correspondence school for their high school requirements may not meet the preliminary education requirement set by the New York State Department of Education.

3. Assessment / Course Placement

Many entering students will be assessed for their abilities in reading, writing, and mathematics before registering for classes in order to determine the most appropriate beginning-level courses.

Students with disabilities can make arrangements for accommodations by contacting the Accessibility Services Office well in advance of taking the assessments.

Entrance examinations such as Scholastic Aptitude Test (SAT) or American College Testing (ACT) are not required.

4. Accelerated Senior Year (ASY)

Applicants who have substantially met high school graduation requirements at the end of their junior year may be considered for full-time study during their traditional 12th grade academic year only when the Director of Admissions judges the student to be academically prepared and capable of success. Decisions will be based on the following criteria:

a. An academic background that includes three years of English, social studies, mathematics, and science at the Regents level. Candidates should have an 85 average or higher in these academic disciplines. Other appropriate courses may be included when calculating the academic average.

b. A written recommendation from the high school principal or counselor which includes (1) a statement endorsing study at CCC, and (2) an outline of courses to be taken at CCC that will satisfy remaining high school graduation requirements.

c. A written recommendation from parent or guardian.

d. A written letter from the student addressing his/her academic goals and reason for attending.

e. Completed Accelerated Senior Year Form.

f. A meeting with an admissions representative.
It is imperative that applicants considering early admission are academically prepared to take college-level courses. High School students who enroll at CCC while completing requirements for their high school diploma are not eligible for any federal financial aid, including student loans. They may apply for New York State TAP awards if they enroll full-time and success-fully complete ability-to-benefit testing.

5. Home-Schooled Applicants
We recommend that all home-schooled applicants meet with an admissions representative to discuss the process.

a. Home-schooled applicants seeking admission to the College must submit certification of an equivalent of a four-year high school course of study. Applicants home-schooled in New York State (who do not have an equivalent diploma) are required to submit a letter from the Superintendent documenting attainment of the substantial equivalent to a high school diploma or CCC’s Superintendent Form for Home Schooled Applicants. This form must be completed by the superintendent of the school district in which the student resided. The form must include the superintendent’s signature and school district seal to be valid.

b. Applicants completing their home-school requirements outside of NYS must provide a letter or other documentation from officials in the school district of their residence certifying the completion of a program of home instruction meeting the requirements of the state of residence for the recognized equivalent of a high school diploma.

c. Applicants who are under the compulsory age of attendance will be eligible for consideration for admission only if they can provide verification of an equivalent of a four-year high school course of study.

d. Home-schooled applicants beyond compulsory school age (completion of the school year in which the student turned 16, or older if required by the school district of residence) who cannot obtain certification of completion will not be eligible for financial aid or for matriculation. However, applicants may choose the following alternate paths towards matriculation:
   - Take courses that satisfy the New York State option for college coursework (see section 8); or
   - Earn a New York State High School Equivalency Diploma.

Once one of the above is completed, applicants would be considered for admission. Applicants must notify the Office of Admissions for consideration.

6. Readmission
Matriculated students who have withdrawn from the College, have not been in attendance for two semesters exclusive of the summer and winter terms, have graduated from CCC or have been academically separated must apply for readmission to return as students and will be considered for readmission under the current catalog requirements.

Transcripts submitted prior to the Fall of 2002 may need to be re-submitted. Please inquire with the Office of Recruitment and Admissions if you have questions as to the need for submission of transcripts.

7. International Applicants
International applicants must follow the application process as outlined for full-time matriculated students. In addition, they must submit scores from the Test of English as a Foreign Language (TOEFL) and satisfactory evidence that they have sufficient funding to finance both living and college expenses. Applicants with coursework taken at foreign institutions must provide the Office of Admissions with an official evaluation from an approved educational evaluation service. Contact the Office of Admissions to find out which evaluators are approved. See details of the international admissions process and deadlines on the college’s official web page.

8. Applicants who do not meet the preliminary education requirements
Applicants who left high school prior to graduation and have not earned a General Equivalency Diploma (GED) or Test Assessing Secondary Completion (TASC) who have received an Individualized Educational Plan (IEP) diploma, can be considered for admission to CCC if they meet the following conditions: the applicant’s high school class must have graduated or the applicant must be at least 19 years of age; and the applicant must take the ability-to-benefit tests and meet the College’s standards. The application will then be reviewed and a decision will be made by the Director of Admissions. Applicants who are admitted through this method may apply to New York State for an equivalency diploma after completion of 24 hours of college credit in these subject areas: English – 6 credits, Math – 3 credits, Natural Science – 3 credits, Social Science – 3 credits, Humanities – 3 credits, 6 credits in any other courses within the degree requirements. CCC does not offer a GED/TASC program. For more information on how college courses can be used to earn an equivalency diploma: http://www.acces.nysed.gov/what-hsetasc-test. Students who do not meet the preliminary education requirements are not eligible for any federal financial aid, including student loans.

9. Taking Courses Without Matriculating
Individuals who wish to take courses without matriculating are not required to go through the admissions process; however, they must speak with an Admissions Representative, an ACE Representative, or by visiting the Enrollment Advisement Center. Students who are not matriculated into a degree seeking program are not eligible for any federal financial aid, including student loans.
Health Form
Each student must complete a self-reporting health questionnaire and submit it to the Health Office. Students may be accepted and register prior to receiving immunization records. However, immunization requirements must be met or a hold will be placed on the student’s record. All applicants born January 1, 1957 or after and taking 6 or more hours must have up-to-date vaccinations for measles, mumps, and rubella in order to be registered for classes. Health forms are available on the College’s web page. New health forms will be required of applicants who have not attended during the prior year.

Applicants in the Nursing Program or the Athletic Program must request a special health form that requires a complete physical by their Health Care Provider. Persons with physical limitations must have statements from their doctors and must contact the Health Office if excused from physical education activities.

Applicants with prior disciplinary dismissal from another institution on their application for admission to the College will be required to follow the procedures outlined by the Admission Review Committee and Provost. Students will be notified within a week of their application of the procedures in writing to the address they provide on their application. Although every attempt will be made to review a student’s application, application materials received within 30 days of the start of classes are not guaranteed ample time to review the materials for decision.

In addition to a review of the submitted application packet, applicants may be asked to come in for an interview, as a part of the Admissions Review Team’s consideration. Applicants who are accepted may or may not have conditions as part of their acceptance to the College. Failure to adhere to the conditions could result in dismissal from the College. Applicants may be denied acceptance to the College based on the Admissions Review Team’s recommendations.

Applicants who have applied, but have their application reprocessed for a future term may be required to submit a new supplemental application (including required documents) if the original submission date exceeds one year.

Applications will not be reviewed by the Admissions Review Team unless they are complete.

Bills, Cost, and Payment
Upon registration, a student agrees to be responsible for the educational costs associated with their registration. Tuition and fees are due in full prior to the start of the semester. There are 3 ways to fulfill this obligation:
1. Pay in full by the due date.
2. Set up an installment plan by completing the online paperwork, paying the installment plan fee, and making the first payment by the first due date.
3. Complete all financial aid paperwork, so that financial aid can be used to pay prior to the start of the semester. Note: if the amount of aid is not sufficient to cover the balance due, payment arrangements as outlined above must still be made for the remaining balance.

Due dates for payments and installment plans are outlined below:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Due dates for pay in full or installment</th>
<th>Payment Plan Available</th>
<th># of Payments in Installment Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>August 15</td>
<td>Yes</td>
<td>4-due 15th of Aug. thru Nov.</td>
</tr>
<tr>
<td>Winter</td>
<td>December 15</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td>January 15</td>
<td>Yes</td>
<td>4-due 15th of Jan. thru April</td>
</tr>
<tr>
<td>Summer</td>
<td>May 15</td>
<td>Yes</td>
<td>3-due 15th of May, June, July for balances over $500</td>
</tr>
</tbody>
</table>

If payment is not made by the due date, a one percent per month late fee will be charged to the student’s account. Students with delinquent accounts will be blocked from registering for future courses, and a hold will be placed on transcripts until all past due balances are paid in full. If action is necessary to enforce collection, all reasonable collection fees, including attorney fees, will be charged to the student. Students should seek the personal attention of the staff in the Student Accounts if they have any questions or difficulties in making full payment by the payment due date.

Installment Plan
The purpose of an installment plan is to help make college affordable. It allows students to spread their payments for tuition and fees over a four-month period. There is a processing fee of $30. Students with delinquent accounts are ineligible for the installment plan. Questions about the installment plan may be directed to the Student Accounts.

Emergency Loans
The purpose of an emergency loan is to provide a “bridge” for students who have financial needs at the beginning of a semester, while financial aid or other financial resources are being processed. These loans provide interim resources for necessary purchases, such as books and supplies. Students who wish to apply for an emergency loan must complete financial aid applications and the Certificate of Residence to be eligible. Students with delinquent accounts are ineligible. Questions about these loans may be directed to the Enrollment Advisement Center.
**Taxpayer Relief Act**

Taxpayers may be eligible for tax credits based on payment of qualified tuition and related expenses to CCC. For further information concerning the American Opportunity Credit or Lifetime Learning tax credits, please contact the IRS or a tax consultant. Information is also available at the following website: www.ed.gov.

**Refund of Tuition and Fees**

If students drop courses within the first three weeks of classes, but do not completely withdraw from the College, they may be eligible for a refund of tuition and fees. Those who completely withdraw from classes may receive a partial refund of tuition and fees. The withdrawal date is determined by the date the Enrollment Advisement Center is officially notified of the withdrawal. The following schedule illustrates the percentage to be refunded for completely withdrawing from the semester:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Withdrawal Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall/Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>1st Week</td>
<td>75%</td>
</tr>
<tr>
<td>2nd Week</td>
<td>50%</td>
</tr>
<tr>
<td>3rd Week</td>
<td>25%</td>
</tr>
<tr>
<td>4th Week &amp; after</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Winter Semester</strong></td>
<td></td>
</tr>
<tr>
<td>1st Week</td>
<td>75%</td>
</tr>
<tr>
<td>2nd Week &amp; after</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Summer Semester</strong></td>
<td></td>
</tr>
<tr>
<td>1st Week</td>
<td>75%</td>
</tr>
<tr>
<td>2nd Week &amp; after</td>
<td>0%</td>
</tr>
</tbody>
</table>

Amounts to be refunded shall first be credited to outstanding balances and to any loss or reduction of awards under financial aid assistance programs.

If students withdraw from a full-time course load, an administrative fee of $50 is charged to their account. If they withdraw from a part-time course load, a $25 fee will be charged. If students withdraw and still have financial obligations, their records (i.e. academic transcripts) will be held until those obligations are satisfied. Students who are dismissed from the College for other than academic reasons are not entitled to a refund.
Costs
All costs are estimates only and are subject to change without prior notice. The Corning Community College Board of Trustees will approve final rates for the 2020-2021 academic year in June, 2020 (after publication of this catalog). Go to https://www.corning-cc.edu/tuition-and-costs to find approved rates as they are available.

Tuition (Subject to change)

Full-time students (12 or more credit hours)

New York State Resident with valid Certificate of Residence: 2,436.00 per semester
Pennsylvania Resident living in Perry Hall: 2,436.00 per semester
New York State Resident without valid Certificate of Residence: 3,984.00 per semester
Out-of-State Resident: 3,984.00 per semester

Part-time students (fewer than 12 credit hours)

New York State Resident with valid Certificate of Residence: 203.00 per credit hour
New York State Resident without valid Certificate of Residence: 332.00 per credit hour
Out-of-State Resident: 332.00 per credit hour

Non-credit courses
Tuition and fees vary and are subject to change

Room and Board Rates (for students living on campus)

Housing Deposit: 450.00 per year
Double Room: 3,180.00 per semester
Single Room: 4,000.00 per semester
Super Single Room: 4,200.00 per semester
Meal Plan (mandatory): 1,770.00 per semester
Residence Hall Program Fee: 25.00 per semester

Mandatory Student Fees
Advising, assessment, and records fee

4.5-6.5 credit hours: 7.50 per semester
7.0-11.5 credit hours: 15.00 per semester
12 or more credit hours: 30.00 per semester

Athletic fee

0.5-11.5 credit hours: 6.00 per credit hour
12 or more credit hours: 72.00 per semester

College ID Card fee: 10.00 per semester
Health fee
6.0-11.5 credit hours .................................................. 5.00 per semester
12 or more credit hours ............................................... 10.00 per semester

Student Activity fee
0.5-11.5 credit hours .................................................... 7.25 per credit hour
12 or more credit hours ............................................... 73.00 per semester

Technology fee
6.0-11.5 credit hours .................................................... 12.00 per credit hour
12 or more credit hours ............................................... 175.00 per semester

Physical Education fee .................................................. 8.00 per semester

Other Fees and Expenses
Assessment of Prior Learning
Corning Community College Challenge Exam
(written or lab) .......................................................... 80.00

Articulated Credit Transcription Fee .................................. 80.00

Portfolio Evaluation (1-6 credits) ...................................... 400.00

Portfolio Evaluation (7-12 credits) .................................... 800.00

Portfolio Evaluation (13-18 credits) ................................... 1,000.00

Test proctoring fee (for non-CCC exams) ......................... 25.00

Audit of course .............................................................. 177.00 per credit hour

Student Health Insurance (required for Perry Hall residents and Nursing Students who are not covered by their own plan) ........................................... 1,831.00 per year (Spring + Fall Semester)

Student Health Insurance (required for Perry Hall residents and Nursing Students who are not covered by their own plan) ........................................... 1,136.00 per semester (Spring Semester only)

Course fees ................................................................. Varies by course

Estimated Cost of Books and Supplies ................................ 700.00 per semester

Lab Fees ................................................................. 30 per credit hour (maximum = $180)

Late payment on student account .................................... 1% per month

Nursing Liability Insurance ............................................ 7.50 per semester

Nursing Program fee (NURS 1100, 1500, 2100, 2500) ............ 500.00 per semester

Nursing Uniform .......................................................... 60.00 initial cost

Open Educational Resource Fee ....................................... 25.00 per class

Parking permit fee ....................................................... 25.00 per year

Returned check fee ...................................................... 25.00 per occurrence
Financial Aid Awards and Procedures
The primary obligation for meeting college costs lies with the student and the student’s parents. However, financial aid, through the state and federal government and CCC Scholarships, provides funds to eligible students that can be combined or used separately to help meet the cost of attendance at CCC. While the financial aid process is sometimes complicated, helpful staff are available to assist students and parents with the process.

Types of Aid
Financial assistance falls into three basic categories:

- Grants and scholarships: No repayment. Grants based on need. Scholarships based on student’s academic performance or special talents.
- Loans: Typically low interest with repayment after the student graduates or ceases enrollment.
- Employment (Work-Study): Certain number of hours per week in on- or off-campus work.

Applying for State and Federal Aid
To apply for most state and federal aid programs students must file the Free Application for Federal Student Aid (FAFSA) electronically at www.fafsa.gov. Students/parents should first apply for a federal student aid username and password (FSAID) at studentaid.gov/fsaid. The FSAID is used as their electronic signature. CCC’s federal code is 002863; enter this on the FAFSA. Once the FAFSA is processed, students receive a Student Aid Report (SAR).

New York State residents may apply for the New York State Tuition Assistance Program (TAP). When completing your FAFSA on the Web, the confirmation page will provide a link to the TAP on the Web application. The CCC school code for NYS is 2042. You may also apply online at www.tap.hesc.ny.gov/totw once your FAFSA is processed. If you are unable to complete the application electronically, you may request a paper Express TAP Application (ETA) from the CCC Financial Aid Office once your FAFSA is processed.

The Financial Aid Office will receive your FAFSA data electronically from the federal processor. You may be required to submit additional information or documentation to complete your application. If so, we will notify you once your FAFSA is received via mail and/or email.

Once your application is complete and correct, we will verify your admission status, academic progress and your expected enrollment status to determine your eligibility for financial aid. We will send you an award letter indicating your eligibility and instructions for your next steps to accept/decline your awards.

When to Apply
You must apply for state and federal aid every year. The FAFSA and TAP applications are available on October 1st for the following academic year. Whether you are a new or continuing student, it is strongly suggested that you complete your FAFSA by April 1 if you will be enrolling in the fall semester and October 1 if you will not enroll until the spring semester of the academic year.

How Eligibility is Determined
You must be officially accepted by the CCC Admissions Office in a degree program. Eligibility for all federal and state aid is awarded for enrollment in courses that are degree/program requirements. Students should review their “degree evaluation” on MyCCC to make certain that the courses they have registered for are degree/program requirements of their current primary program of study. Students must also meet the College federal and state satisfactory academic progress requirements.

Please note there are strict limitations on awarding federal aid retroactively after the student has ceased attendance so completion of the FAFSA and all other federal aid requirements prior to the beginning of the academic year is strongly suggested.

Enrollment Status (*hours in program of study)

<table>
<thead>
<tr>
<th>Award</th>
<th>12 or more*</th>
<th>9-11.5*</th>
<th>6-8.5*</th>
<th>0.5-5.5*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Pell Grant</td>
<td>100% of eligible award</td>
<td>75% of eligible award</td>
<td>50% of eligible award</td>
<td>0-25% of eligible award</td>
</tr>
<tr>
<td>TAP</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Federal Direct Loan</td>
<td>100% of eligible award</td>
<td>100% of eligible award</td>
<td>100% of eligible award</td>
<td>0%</td>
</tr>
</tbody>
</table>

Federal campus-based aid and federal direct loans are awarded on the basis of the student’s financial need (Cost of Education minus Family Contribution equals Financial Need). A student’s financial need is also adjusted for the receipt of private scholarships or grants, and it is the student’s responsibility to notify the Financial Aid Office if they are receiving assistance of this type. Also, benefits received from outside programs such as the Trade Adjustment Act, Workforce Investment Act, ACCES-VR (VESID), etc. will be used in determining a student’s financial need. Federal PLUS (parent loans) are available to assist families to bridge the gap between cost of education and student financial aid eligibility. High school students who are enrolled at the College while completing requirements for their high school diploma are not eligible for any federal aid.
Disbursement of Federal Aid

Federal aid is generally disbursed beginning the fifth week of the semester to students who have completed all federal aid requirements and continues weekly throughout the academic year for late applicants who are eligible for federal aid. Also, excess federal aid over and above charges for tuition, fees, housing, etc. may be used in the College Store and will be made available to students, who have completed all requirements, two weeks prior to the beginning of the semester. Students who have been awarded Pell Grant and have excess Pell Grant funds over and above their charges for tuition and fees who wish to purchase books through other retailers may apply for an emergency loan. For more information, contact the Enrollment Advisement Center.

Financial Aid Programs

Federal Pell Grant

Students accepted in a program and enrolled in courses that are degree/program requirements of their primary program of study should apply. Eligibility is determined by family size, income, assets, etc.; continued eligibility is affected by academic progress. Amounts range from approximately $649 to $6,354 per academic year depending on enrollment status. Available to both full- and part-time students. Complete the FAFSA.

Tuition Assistance Program (TAP)

New York State residents who are accepted in a program, enrolled in 12 or more program hours and are in good academic standing should apply for this grant. Usually students are eligible if their family’s state net taxable income is no more than $80,000. For independent students with no dependents, the net taxable income limit is $10,000. Incomes may be higher if more than one family member is in college full-time. Annual awards range from $500 to 100 percent of tuition. Students may use up to six semesters of TAP eligibility to pursue an associate degree. Complete the FAFSA and Express TAP applications.

A student may be eligible to receive TAP for part-time enrollment if they are certified under the Americans with Disabilities Act (ADA). ADA defines a person with a disability as anyone with physical or mental impairment that substantially limits one or more major life activity, such as caring for oneself, performing manual tasks, walking, seeing, hearing, speaking, breathing, learning and working. The disability must be documented with CCC’s Office of Accessibility Services before the student is considered for TAP for part-time enrollment.

Excelsior Scholarship

The Excelsior Scholarship, in combination with other aid programs including the Federal Pell Grant and NYS TAP, provides free college tuition to NYS residents who meet the eligibility requirements. To be eligible, a student must enroll full-time, complete at least 30-credit hours per year, be on track to graduate in two years, and have family income of $125,000 or less. Recipients must live and work in New York State for the number of years equal to awards received. Failure to meet these requirements will result in the conversion of the award to a no-interest loan. Complete the Excelsior Scholarship application at www.hesc.ny.gov.

Part-Time Tuition Assistance Program

New York State residents who were accepted in a program as first-time freshmen, have earned 12 credits or more in each of two consecutive semesters, maintained a 2.0 cumulative GPA, and enrolled between 6 and 11 credit hours in their program of study should apply for this grant. Income guidelines are the same as the Tuition Assistance Program. Awards are based on a prorated schedule through NYSHEC. Complete the FAFSA and the Express TAP application.

Additional Financial Aid Programs

Students who are accepted in a program and have financial need in excess of their Pell and/or TAP awards may be eligible for additional aid. Award amounts vary based on financial need.

Federal College Work-Study (FWS):

A type of federal aid that allows eligible students to work part-time while attending school at least half-time. The total award amount depends on need, other aid received and the availability of funding. Available jobs can be found in MYCCC on the “Student” tab under the “On-Campus Student Jobs” link. The amount of the award actually received is dependent upon how many hours the student works. Complete the FAFSA.

Federal Supplemental Educational Opportunity Grant (SEOG):

From $300 to $600 per academic year and awarded to the neediest students attending at least 6 credit hours who are also Pell Grant eligible. Complete the FAFSA.

Aid for Part-Time Study (APTS):

This grant is for matriculated part-time students enrolled in at least 3 credit hours; however, priority is given to half-time students. Applicants must be New York State residents and be in good academic standing prior to applying. For dependent students or married students with dependents, the family net taxable income can range up to $50,500. Independent students must have a net taxable income of $34,250 or less. Students are not eligible if they have already used all semesters of TAP eligibility. Remedial courses can be counted toward a student’s part-time load hours if the student is also enrolled in at least three credit hours. Amounts: up to $1,000 per semester. APTS applications are available from the EAC or on the web at https://www.corning-cc.edu/financial-aid-scholarships. Completed applications are submitted to the Enrollment Advisement Center.


Educational Loans

CCC participates in the Federal Direct Loan Program for students and the Federal Direct Parent Loans for Undergraduate Students (Direct PLUS). Funding for your student loan and/or parent loan will come directly from the U.S. Department of Education. Direct Loans may be used for any related educational expense. Students must be accepted in a program and registered for at least 6 credits of degree/program requirements in their primary program of study each semester. Loans are available to students with demonstrated financial need.

Federal Direct Loans (Subsidized/Unsubsidized):

“Subsidized” loans up to $3,500 for freshmen and $4,500 for sophomores (26 or more credit hours earned) per year are available depending on financial need. The federal government will pay the interest on “subsidized” loans while the student is in school. However, students must complete their educational program within 150% of the length to remain eligible for the interest subsidy. Additional “unsubsidized” loan funds may be available up to $2,000 per year for dependent students and $4,000 per year for independent students, however, interest accrues to the student from the time of disbursement of the loan. Loans are subject to an origination fee which is deducted from the proceeds of the loan. The interest rate is fixed for each loan, and repayment begins six months after leaving school or dropping below half-time. Minimum repayment is $50 monthly. Complete the FAFSA. For more information about these programs and to complete the Direct Loan Master Promissory Note and Entrance Counseling for first-time borrowers go to https://studentloans.gov.

Loan Repayment Example - 10 years (120 months)

<table>
<thead>
<tr>
<th>Loan Amount</th>
<th>Monthly Payment</th>
<th>Total repaid at 5% interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5,000</td>
<td>$53</td>
<td>$6,364</td>
</tr>
<tr>
<td>$10,000</td>
<td>$106</td>
<td>$12,728</td>
</tr>
<tr>
<td>$15,000</td>
<td>$159</td>
<td>$19,092</td>
</tr>
<tr>
<td>$20,000</td>
<td>$212</td>
<td>$25,456</td>
</tr>
</tbody>
</table>

Direct Parent Loans for Undergraduate Students (Direct PLUS):

Up to total educational expense minus financial aid per academic year on behalf of each dependent undergraduate. Interest rate is fixed for each loan, and there is an origination fee. Repayment begins immediately after receipt of second disbursement of the loan. Complete the FAFSA. For more information and to complete a Direct Loan PLUS Promissory Note/Application go to https://studentloans.gov.

Scholarships, Awards and Loans

CCC administers a number of scholarships, awards and loan funds provided by the CCC Development Foundation Inc., Office of Institutional Advancement, Alumni Association, academic divisions, as well as community members and organizations. They vary in amount and are based on a variety of factors including high school record, academic record at CCC, academic program and need. Application requirements and deadlines vary.

Scholarships and Awards:

These funds are intended for costs associated with attending CCC. They are presented to students currently enrolled at CCC at the annual Scholarship Ceremony in the fall.

Loans:

Emergency funds are established to provide students with loans for books and other educational needs. Because of the personal nature of loans, the names of recipients are not publicly announced. For current information about specific scholarships, awards and loans administered by CCC, visit https://www.corning-cc.edu/scholarships.

Keystone Scholarship

The Keystone Residential Scholarship provides Pennsylvania residents who live on campus with the ability to earn an associate’s degree from SUNY Corning Community College at the same tuition as New York State residents.

Good Neighbor Plan

The Good Neighbor Plan reduces the cost of attending for students who are not New York State residents. For the 2019-2020 academic year, the Good Neighbor Plan ensures SUNY CCC’s tuition for out-of-state students is a better value than that offered by several other regional community colleges.

Veterans’ Benefits

In addition to the traditional forms of financial aid, students who are military veterans, members of the Reserves or National Guard may be eligible for education benefits from the Department of Veterans Affairs. The Veteran’s Certification Representative at CCC is available to assist you in the application and payment process. The Department of Veterans Affairs provides educational assistance allowance to veterans eligible for:

- Montgomery GI Bill Active Duty (Ch. 30)
- Montgomery GI Bill Selected Reserve (Ch. 1606)
- Post-9/11 GI Bill (Ch. 33) – eligible veterans receive housing allowance, book stipend and tuition benefit.

If you are currently active duty you may be eligible for the Department of Defense Tuition Assistance Program. All branches of service have its own criteria for eligibility, obligated service, application process and restrictions.

Please consult the GI Bill Website (www.benefits.va.gov/gibill) for application procedures, eligibility requirements, payment rates, and additional information regarding VA benefits. You may also contact the VA School Certifying Official by phone at 607-962-9433, toll free 800-358-7171, ext. 9433 or email bauman@corning-cc.edu.
**Disabled Veterans** with at least a 20 percent service connected disability may be eligible for Vocational Rehabilitation. Interested veterans should visit www.vba.va.gov/bln/vre for additional information and application.

**Veteran Dependents** may be eligible for the following benefits please consult the GI Bill website (www.benefits.va.gov/gibill) for application procedures, eligibility requirements and payment rates.

- Post-9/11 GI Bill Transfer of Entitlement: Veterans may be eligible to transfer their Post-9/11 GI Bill Benefits to their children and/or spouse.
- Post 9/11 GI Bill: Marine Gunnery Sergeant John David Fry Scholarship: Children of an active duty member of the Armed Forces who had died in the line of duty on or after September 11, 2001, are eligible for this benefit. A child may be married or over 23 and still be eligible.
- Survivors’ and Dependents’ Educational Assistance Program (Ch. 35): Spouse/Widow or Child of a veteran who is permanently and totally disabled or died as a result of a service connected disability may be eligible.

In accordance with Title 38 US Code subsection (e), this school adopts the following additional provisions for any student using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch.33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA. This school will not prevent or delay the student’s enrollment, assess a late penalty fee to the student, require the student to secure alternative or additional funding and will not deny the student access to any resources available to other students who have satisfied their tuition and fee bills to the institution, including but not limited to access to classes, libraries, or other institutional facilities. However, to qualify for this provision, such students will be required to produce the Certificate of Eligibility by the first day of class.

**New York State residents** may qualify for the Veterans Tuition Award: Eligible students are those who are New York State residents discharged under honorable conditions from the U.S. Armed forces and who are: Vietnam Veterans who served in Indochina between December 22, 1961 and May 7, 1975. Persian Gulf Veterans who served in the Persian Gulf from August 2, 1990. Afghanistan Veterans who served in Afghanistan during hostilities on or after September 11, 2001. Veterans of the armed forces of the United States who served in hostilities that occurred after February 28, 1961 as evidenced by receipt of an Armed Forces Expeditionary Medal, Navy Expeditionary Medal or a Marine Corps Expeditionary Medal.

Students should complete the New York State Veterans Tuition Award (VTA) the FAFSA and the Ex- press TAP application. The VTA form is available at www.hesc.ny.gov. Additional state aid includes Military Service Recognition Scholarship (Child/Spouse), Regents Awards for Children of Deceased & Disabled Veterans, Recruitment Incentive and Retention Program (Army & Air National Guard, and Naval Militia). For more information regarding eligibility for these programs visit www.hesc.ny.gov.

**Policies Affecting Eligibility for Financial Aid**

**Program of Study & Financial Aid Eligibility**

As stated previously, state and federal financial aid award amounts (TAP, PT-TAP, APTS, PELL Grant, Federal Direct Loans, etc.) are based on hours in program. College policy allows students to change their primary program of study or, if in a dual program, add/change their secondary program until the 3rd week of the semester. However, the policy governing state and federal financial aid eligibility is as follows:

To determine financial aid eligibility, the College must verify a student’s hours of study are applicable to the degree/program requirements of their “official” primary or secondary program(s) of study. Enrollment status for students in both a primary and secondary program will be based on the program for which the greatest number of hours applies. Enrollment status will not be based on hours that are split between two programs. Meeting this requirement is ultimately the student’s responsibility.

**Primary Programs & Financial Aid Eligibility Issues:**

To resolve an “audit” issue, when courses do not apply to your program of study, students will have until the end of the third week of classes to officially change their current primary program of study for TAP and federal aid.

Failure to make the necessary changes to the primary program of study by the end of the third week of classes will result in decertification of the student’s TAP award and recalculation of federal aid for that semester.

**Secondary Programs & Financial Aid Eligibility Issues:**

Adding or changing a secondary program of study will not resolve an “audit” issue for that current semester once the semester has begun. However, the new secondary program will be used in evaluating the student’s eligibility for subsequent semesters.

**Program Hours & Financial Aid Eligibility:**

Financial aid awards are determined based on hours applicable to the student’s program of study. Semester awards will be recalculated for changes in enrollment status through the end of the third week of classes and at that time, the student’s enrollment status will be “frozen.” After the student’s enrollment status is frozen, there will be...
no recalculation of the student’s federal aid if the student adds courses (with the exception of the Federal Direct Loan program and requirement for half-time enrollment status.) However, failure to attend or dropping a late starting course may result in recalculation of state and/or federal aid for the semester. Also, recalculation of federal aid awards may occur throughout the semester if the student withdraws from all courses or if the student receives F grades in all courses and the College determines that the student did not attend past the 60% point of the semester.

Full-time New York State TAP awards require a student to carry 12 hours or more of new study within the program of record and meet all academic and pursuit of program guidelines to maintain eligibility. If a student fails to maintain full-time status in program, the full-time award will be canceled. The only exception to the requirement of being full-time in program for NYS TAP eligibility is the special consideration given in the student’s last two semesters of their program. If the student does not need 12 or more hours in program to meet the degree requirements and graduate, courses that would qualify as free electives can be added to establish full-time status except any previously passed course.

For example, if the student only needs a 3 credit hour liberal arts course to meet the degree requirements and graduate, the student can add any “free elective” course(s) for consideration of full-time status for NYS requirements. Essentially, this means courses OTHER than physical education courses (PFIT).

This does not apply to the federal aid programs. Students will receive federal aid, if eligible, for courses that are required for program completion.

Repeat Courses & Financial Aid Eligibility
State Aid
Courses that have been previously passed with a D or higher are not typically covered by state financial aid unless one of the following circumstances applies:

a. The student is repeating a course that requires a minimum grade to continue in program, or the repeat course has a shelf life that has expired.

b. Students repeating a course only to better their cumulative grade point average or to affect their enrollment status should understand that this repeated course will not be considered when determining financial aid enrollment status or eligibility.

Federal Aid
Repeat credit courses that have been previously passed (D or higher) may be included in student’s enrollment status one time for federal aid eligibility. Repeat of passed remedial courses will not count in a student’s enrollment status.

Academic Progress Policy for Federal Financial Aid
For continued federal financial aid eligibility, academic progress will be reviewed at the end of each semester of enrollment. All semesters of attendance are included in the review regardless of whether or not the student received federal aid in all semesters of attendance.

Satisfactory Academic Progress Policy for Federal Financial Aid
Students receiving financial aid are required to maintain minimum program pursuit and academic progress standards in order to continue to receive financial aid assistance. These standards are different from any academic review, which means you may be on probation for academics but not for your financial aid and vice versa.

Academic progress for continued federal financial aid eligibility will be reviewed at the end of each semester of enrollment (fall, winter, spring, and summer) and is based on a student’s cumulative record. All semesters of attendance are included in the review regardless of whether or not the student received federal aid in all semesters of attendance.

Standards of Federal Satisfactory Academic Progress
Student’s performance is measured using three components:
Qualitative, Quantitative, and Maximum Time Frame.

1. Qualitative Standard (Cumulative GPA): Qualitative standard refers to a student’s cumulative grade point average. A student is considered to be in good academic standing if he/she maintains a minimum GPA at the conclusion of each semester. Grades for remedial courses are not calculated in the student’s GPA, but will be included in the qualitative assessment of Satisfactory Academic Progress (SAP).

2. Quantitative Standard (Pace of Progress): Quantitative standard refers to the successful completion of credits towards the student’s degree or certificate. Pace is determined by comparing the number of attempted credit hours with the credit hours successfully completed (passed).

Attempted Credit Hours include:
- Earned hours – Grade of A-D and courses with a grade of S, U, or P
- Repeated courses – all attempts
- Remedial Coursework – Grade with an * after it
- Withdrawal (W) or a Complete Withdrawal (R)
- Failure (F)
- Incomplete (I)
- No Grade/No Credit (N)
- Audited courses (T)
- All accepted transfer credits, consortium agreement credits and SUNY Cross Registration credits that count towards the degree program.
Completed (Passed Credits) include:
- Passed hours – Grade of A-D and courses with a grade of S, P
- Repeated courses – one attempt
- Remedial Coursework – Grade of A-D with an * after it. These completed remedial credits are only applicable to assessing federal SAP eligibility. They will not show as earned credits towards a degree program on the official transcript.
- All accepted transfer credits, consortium agreement credits, and SUNY Cross Registration credits that count towards the degree program eligibility for future semesters the student must return to “Good Standing” by the end of their federal aid warning semester.

A student who does not meet the Cumulative GPA and Pace at the conclusion of the Federal Aid Warning Semester is notified by the Financial Aid Office that he/she is not making SAP for Financial Aid and is ineligible for federal aid. The student is also notified of the Appeal Process.

A student may have more than one Federal Aid Warning Semester; however, they may not be consecutive.

- **Federal Aid Probation**
  Students who fail to return to Good Standing at the end of the Federal Aid Warning semester will not be eligible for further federal financial aid (regardless of whether or not the student received federal financial aid while on “financial aid warning”).

The student would have two options for the next semester of attendance:
1. The student may attend without federal financial aid in an effort to return to Good Standing on their own.
2. They may appeal for reinstatement of their federal financial aid. If approved they would be placed on Federal Aid Probation. Approval of appeals is not automatic and would be based on the student’s academic plan as outlined in their appeal and the ability to return to “Good Standing” by the next semester or within a reasonable time-frame. If a student is not mathematically able to return to satisfactory progress within one semester, they must have an Academic Plan. Students on financial aid probation who do not meet SAP requirements or the requirements of their academic plan will become ineligible for federal financial aid.

**Status: Suspension from College and Federal Aid Eligibility**
Students who are placed on “Suspension” may appeal for reinstatement of their federal financial aid. Students may submit to the Enrollment Advisement Center a copy of the appeal form that is submitted to the Educational Standards and Policies Committee to appeal their suspension.

This should not be construed to assume that federal financial aid eligibility will automatically be reinstated even if the College approves the student’s reinstatement to “Probation” status. However, if the College does reinstate a student who is on “Suspension” to “Probation” status, then the Financial Aid Appeals Committee will review the student’s appeal and notify the student of their decision regarding reinstatement of federal financial aid. The decision will be based on the student’s academic plan and ability to return to “Good Standing” by the next semester or within a reasonable timeframe.

### Minimum Satisfactory Academic Progress (SAP) for Federal Financial Aid

<table>
<thead>
<tr>
<th>Attempted Credit Hours</th>
<th>Minimum GPA</th>
<th>Cumulative Completion Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-11.5</td>
<td>0.75</td>
<td>50%</td>
</tr>
<tr>
<td>12-18.5</td>
<td>1.00</td>
<td>55%</td>
</tr>
<tr>
<td>19-36.5</td>
<td>1.5</td>
<td>67%</td>
</tr>
<tr>
<td>37-54.5</td>
<td>1.75</td>
<td>67%</td>
</tr>
<tr>
<td>55-93</td>
<td>2.0</td>
<td>67%</td>
</tr>
<tr>
<td>94 or more</td>
<td>150% reached-not eligible for aid</td>
<td></td>
</tr>
</tbody>
</table>

3. Maxmum Time Frame: Undergraduate students may receive aid for a maximum of 150% of the degree program requirements.*

- **Certificate Program** – The average length of a Certificate Program at Corning Community College is 32 credits. The maximum time frame for most Corning Community College students to receive aid while enrolled in a certificate program is 48 attempted Credit hours.

- **Associate Degree Program** – The average length of an Associate Degree Program at Corning Community College is 62 credits. The maximum time frame for most Corning Community College students to receive aid while enrolled in an associates program is 93 attempted Credit hours.

* Total hours and specific course requirements required for graduation are published in the College Catalog which can be found of the College’s web site or MyCCC.
Program Completion Requirement (150% Rule) for Federal Financial Aid Eligibility

For federal aid eligibility, students must complete their program of study within a time-frame not greater than 150% of the published hours required for graduation. Attempted hours are used to evaluate the 150% point. Hours for all graded courses (A, A-, B+, B, B-, C+, C, D, F, and I, N, P, W, R, S, U, X and graded remedial courses) count as “hours attempted.” Transfer courses applicable to the student’s program of study also count in hours attempted. For example, if the program requires 62 hours for completion, once the student has attempted 93 hours, including transfer hours applicable to the program, they are no longer eligible for federal aid at CCC. Once the student has graduated from one program of study at CCC, federal aid eligibility may be reinstated for pursuit of a subsequent program of study, provided they meet all other requirements for federal aid eligibility (academic progress, etc.)

Total hours and specific course requirements required for graduation are published in the College Catalog which can be found on the College’s website or MyCCC.

Students who change programs, fail to pay careful attention to program requirements or have continued academic difficulty are more likely to lose federal aid eligibility by failing to complete graduation requirements within the required time-frame.

Students may appeal for one additional semester if they are able to complete graduation requirements. Students who were required to complete developmental courses are strongly encouraged to appeal. However, approval of appeal is not automatic and will be based on the student’s overall academic record.

Multiple Programs of Study for Federal Aid Eligibility

Students who have completed/graduated from one program of study and are readmitted to another program of study will be evaluated based on the courses that apply to their current program in terms of total hours attempted, total hours passed and cumulative grade point average. They will be allowed to receive federal aid for an additional period of time based on 150% of the additional credit hours required for the new program study.

Students attempting to complete a third program of study may be denied further federal aid if the new program is not “substantially” different from the other programs that the student has already completed. If the program is deemed to be “substantially” different, students will be given one academic year to earn their degree and receive federal financial aid. All coursework taken during this one academic year must count towards their new degree. If after the one academic year the student fails to earn the third degree, they will no longer be eligible for federal financial aid at Corning.

Withdrawals:

Students who withdraw totally from the institution, either officially or unofficially, will not meet academic progress and will be placed on financial aid warning or probation.

Non-credit Remedial Courses:

Students who are required to take non-credit remedial courses have up to three full-time semesters to complete these requirements as per College policy. Remedial course hours will count toward hours attempted. As they will be counted toward the 150% time frame (see Program Completion Requirements Rule), a student may appeal for an extension of eligibility for federal aid for one semester to complete graduation requirements. Approval of an appeal is not automatic and will be based on the student’s overall academic record.

Fresh Start and Federal Aid Eligibility

Granting of “Fresh Start” does not alter the calculation of the academic progress for federal aid. The Financial Aid Office will recalculate the student’s grade point average based on all GPA hours in the student’s academic history. This calculation of GPA will be used to determine the student’s academic progress for federal financial aid.

Overall Grade Point Average (GPA):

The overall GPA is the average of all course grades (excluding transfer courses) relative to their quality points.

Appeal Process

A student may submit an appeal based on factors that have negatively impacted their academic performance, such as personal illness or injury, death of a relative or close personal friend, illness or injury of a family member, relative or close personal friend, or other special circumstances.

There are 3 required elements of an appeal:

1. Complete the Academic and Federal Aid Appeal Form with all appropriate signatures.
2. Supporting documentation – A student requesting an appeal must submit supporting documentation such as a physician’s written statement to substantiate illness or accident, a copy of a death certificate or newspaper obituary, a written statement from clergy, family member(s), or other third party familiar with the student’s situation, or a written statement from an academic advisor, professor or counselor.
3. Development of an Academic Plan – As part of the appeal, the student must work the Director of Financial Aid to create an academic plan. The academic plan is designed to enable the student to meet both PACE and GPA standards at the conclusion of the plan. An academic plan may entail one to four semesters and includes specific requirements the student must achieve. Although the student is not making satisfactory academic progress, federal aid is reinstated for one semester.

Appeals must be completed and submitted at least two weeks prior to the start of classes. Each appeal will be reviewed by the Appeals Committee. The Financial Aid Office will notify the student by email of the final decision.

Upon approval of an appeal including an academic plan, the student is placed on Financial Aid Probation for the next semester of attendance.
Withdrawal from CCC and Financial Aid Obligations

Financial Aid Office recalculates federal financial aid* eligibility for any student who completely withdraws, stops attending classes, or is dismissed during the semester, prior to 60% of the semester being completed. Recalculation is based on the percent of earned federal financial aid based on the following formula:

Percent of federal aid earned = number of days completed up to the withdrawal date** divided by total days in the semester (excluding break weeks). For more specific information regarding this time frame, please contact the Enrollment Advisement Center.

Federal financial aid is returned to the federal government based on the percent of unearned aid using the following formula: aid to be returned = amount of Federal Title IV Aid disbursed minus Federal Title IV aid earned.

When federal financial aid is returned to the federal government, the student must owe money to CCC and may also owe funds to the federal government. If repayment is owed to a federal aid program the student will have 45 days from the date of notification to repay these funds. Failure to repay within 45 days will result in the account information being turned over to the U.S. Department of Education for collection and future federal aid eligibility would be lost until this debt is repaid. Students should contact the Enrollment Advisement Center regarding any money owed to CCC.

* Federal financial aid for this calculation at CCC includes Federal Pell Grant, FSEOG, Federal Direct Student Loans and Federal Direct PLUS (Parent Loan). Any unearned funds are returned to the Direct Loans first, then Pell Grant and then SEOG.

** Withdrawal date is defined as the actual date the student began the withdrawal process or the student’s last date of recorded attendance for the student who leaves without notifying CCC.

*** For students who receive all Fs or a combination of F’s and W’s, the Financial Aid Office will confirm the last date a student attended and will return funds if the last date of attendance is prior to the 60% point of the semester. The return of funds in this case would occur after the semester is over and students will be notified if they have had a recalculation performed, and if so, will be billed by the Student Accounts Office.

Academic Progress Requirements for New York State Aid

For determining continuing eligibility for state aid, refer to the following charts. The standard consists of three components: credits earned*, cumulative GPA and minimum percentage of hours that must be completed with a grade. (*Developmental courses are not included in credits earned).

Students are measured based on the NYS aid payment for which they are being certified. For each payment, the student will be required to have earned a certain number of credits with a minimum cumulative GPA and complete a minimum percentage of hours with a grade of A-F (I grades do not count in total) in the previous semester. To receive NYS aid, students must be enrolled in appropriate course work that applies toward their program of study.

Students receiving APTS or part-time TAP for Students with Disabilities will be evaluated based on the requirements that pertain to their full-time equivalent semesters based on the number of payments received.

Chart #1: Satisfactory academic progress for NYS TAP/Pursuit of Program Requirements (applies to all NYS students who received First TAP payment Fall 2010 or later).

<table>
<thead>
<tr>
<th>Semester</th>
<th>Pts. Accrued</th>
<th>0pts</th>
<th>6pts</th>
<th>12pts</th>
<th>18pts</th>
<th>24pts</th>
<th>30pts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seeking the</td>
<td>1st payment</td>
<td>2nd payment</td>
<td>3rd payment</td>
<td>4th payment</td>
<td>5th payment</td>
<td>6th payment</td>
<td></td>
</tr>
<tr>
<td>A student must have earned at least this many credits</td>
<td>0</td>
<td>6</td>
<td>15</td>
<td>27</td>
<td>39</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>With at least this GPA</td>
<td>0</td>
<td>1.3</td>
<td>1.5</td>
<td>1.8</td>
<td>2.0</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>Pursuit of program</td>
<td>0</td>
<td>6hrs comp to grade</td>
<td>6hrs comp to grade</td>
<td>9hrs comp to grade</td>
<td>9hrs comp to grade</td>
<td>12hrs comp to grade</td>
<td></td>
</tr>
</tbody>
</table>

Chart #2: Satisfactory academic progress for NYS TAP effective Summer 2010/Pursuit of Program Requirements (applies to all NYS students who received first TAP payment Fall 2007 or later):

<table>
<thead>
<tr>
<th>Calendar: Semester</th>
<th>Pts. Accrued</th>
<th>0pts</th>
<th>6pts</th>
<th>12pts</th>
<th>18pts</th>
<th>24pts</th>
<th>30pts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seeking the</td>
<td>1st payment</td>
<td>2nd payment</td>
<td>3rd payment</td>
<td>4th payment</td>
<td>5th payment</td>
<td>6th payment</td>
<td></td>
</tr>
<tr>
<td>A student must have earned at least this many credits</td>
<td>0</td>
<td>3</td>
<td>9</td>
<td>18</td>
<td>30</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>With at least this GPA</td>
<td>0</td>
<td>0.5</td>
<td>0.75</td>
<td>1.3</td>
<td>2.0</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>Pursuit of program</td>
<td>0</td>
<td>6hrs comp to grade</td>
<td>6hrs comp to grade</td>
<td>9hrs comp to grade</td>
<td>9hrs comp to grade</td>
<td>12hrs comp to grade</td>
<td></td>
</tr>
</tbody>
</table>

Subject to change as mandated by NYS Higher Education Services Corporation and NYS Department of Education.
Developmental Courses:
For students who are required to take developmental course work, the “credit hour” equivalent of the courses will be used to determine enrollment status (full-time, part-time) for both state and federal aid. For TAP eligibility, first-time TAP recipients must be registered for, and successfully complete, at least 3 credit hours in addition to the remedial courses in that first semester to maintain TAP eligibility. If TAP has been received previously, even at another college, students must be registered for 6 credit hours in addition to remedial courses. Remember that you must have a minimum of 12 hours of degree/program requirements.

For federal aid, once you have taken 30 hours of remedial courses, these courses will no longer count towards your enrollment status.

Registration/Attendance:
Only registered students are eligible for financial aid. Class attendance and official verification of that attendance will ultimately determine eligibility for financial aid. If attendance cannot be verified, then financial aid awards may be revised and students will be billed for any funds that are owed for tuition and fees or for cash disbursements that are no longer covered by awards.

Any changes in the number of registered hours can impact financial aid eligibility for that semester and for future semesters (academic progress). It is the student’s responsibility to maintain registration status and attendance for financial aid purposes and to promptly report any changes to Enrollment Advisement Center.

For TAP, any courses dropped within the refund period may result in a loss of the full TAP award. To be eligible for full-time TAP, students must be attending 12 hours of degree/program requirements and have incurred full-time tuition charges by the end of the third week of the semester. As TAP awards are not prorated, the whole TAP award will be cancelled.

One-time Waiver
New York State Commissioner of Education regulations permit students to receive a one-time waiver of the good academic standing requirement as an undergraduate. The institution issues the waiver if there are extenuating circumstances. The waiver is not automatic and is intended only to accommodate extraordinary or unusual cases. The waiver is only applicable when there is a reasonable expectation that the student will meet future requirements. The waiver provision does not exist to provide one additional term of eligibility for all students who fail to meet pursuit of progress requirements. It is expected that most students who fail to meet pursuit of progress requirements will not be granted the waiver and will not receive any further state awards until they have regained good academic standing.

If appropriate, the student would obtain, complete and return the New York State TAP Waiver Form available in EAC. Specific details regarding the extenuating circumstance(s) need to be reported, such as specific events and dates, and the appropriate third party documentation is required whenever possible. The Financial Aid Appeals Committee will review the appeal and make a determination.

Waiver of C-Average Requirement
Students who have received the equivalent of two or more full years of state-funded student financial aid (at any New York State school) must have and maintain a cumulative GPA of 2.0 or better to be eligible for continued state-funded assistance.

The C-average requirement may be waived for undue hardship based on the student’s personal illness or injury or other extenuating circumstances.

Documented circumstances must have directly affected the student’s ability to achieve a cumulative GPA of 2.0 as of the end of a particular semester or term. The C-average waiver is separate from the one-time good academic standing waiver and may be granted more than once if circumstances warrant, however, it is only applicable when there is a reasonable expectation that the student will meet future requirements.

The student would obtain, complete and return a New York State TAP Waiver of the C-Average Requirement Form available in EAC. Specific details regarding the extenuating circumstance(s) need to be reported, such as specific events and dates, and the appropriate third party documentation is required whenever possible. The Financial Aid Appeals Committee will review the appeal and make a determination.

Readmitted Students:
Students who have received two or more years of payment of any state awards and who are readmitted to CCC must have a cumulative GPA of 2.0 or better to receive any further state-sponsored student aid. The cumulative GPA would be based on prior grades earned at CCC.

Regaining Eligibility:
Students who are denied an award for failing to achieve a cumulative GPA of 2.0 can regain award eligibility by completing appropriate coursework (without state support) to achieve a cumulative GPA of 2.1. Students cannot regain eligibility by remaining out of school for a period of time
Degrees
CCC offers the following degrees:
- Associate in Arts
- Associate in Science
- Associate in Applied Science
- Associate in Occupational Studies
- Certificate

Associate in Arts Degree (AA)
Associate in Arts programs must contain from 60 to 64 credit hours with more than 75% of the required credits drawn from the Liberal Arts and Sciences. Approved waivers may allow an Associate in Arts program to exceed 64 credits. Associate in Arts programs must provide for the completion of seven of the ten SUNY General Education areas and for completion of thirty credits of approved SUNY General Education courses.

Curriculum requirements for AA:
- Six credits of English (three in rhetoric and three in literature)
- Three credits of mathematics
- Six credits of laboratory science
- Six credits of social sciences
- Six credits of humanities and
- Sufficient liberal arts and sciences requirements or electives to achieve the 75% minimum

Any remaining credits can be assigned to free electives or other program requirements. A minimum of nine credits must be upper-level. These specific requirements may be modified if there is demonstrated evidence that the modifications are warranted by transfer requirements, but the requirements must still conform to SUNY and NYS Education Department regulations.

Associate in Science Degree (AS)
Associate in Science programs must contain from 60 to 64 credit hours with between 50% and 75% of the required credits drawn from the Liberal Arts and Sciences. Approved waivers may allow an Associate in Science program to exceed 64 credits. Associate in Science programs must provide for the completion of seven of the ten SUNY General Education areas and for completion of thirty credits of approved SUNY General Education courses.

Curriculum requirements for AS:
- Six credits of English (three in rhetoric and three in literature)
- Six credits of mathematics
- Six credits of laboratory science
- Six credits of social sciences or three credits of social sciences & three credits of humanities and
- Sufficient liberal arts and sciences requirements or electives to achieve the 50% minimum

Any remaining credits can be assigned to free electives or other program requirements. A minimum of nine credits must be upper-level. These specific requirements may be modified if there is demonstrated evidence that the modifications are warranted by transfer requirements, but the requirements must still conform to SUNY and NYS Education Department regulations.

Associate in Applied Science Degree (AAS)
Associate in Applied Science programs must contain from 60 to 64 credit hours with between 25% and 50% of the required credits drawn from the Liberal Arts and Sciences. Approved waivers may allow an Associate in Applied Science program to exceed 64 credits.

Curriculum requirements for AAS:
- Six credits of English (three in rhetoric and three in literature)
- Three credits of mathematics
- Three credits of laboratory science
- Six credits of social sciences or three credits of social sciences and three credits of humanities and
- Sufficient liberal arts and sciences requirements or electives to achieve the 25% minimum

Any remaining credits can be assigned to free electives or other program requirements. These specific requirements may be modified if there is demonstrated evidence that the modifications are warranted by career or transfer requirements, but the requirements must still conform to SUNY and NYS Education Department regulations.

Associate in Occupational Studies Degree (AOS)
Associate in Occupational Studies programs must contain a minimum of 60 credit hours and a program grade point average of 2.0 must be achieved for graduation. This degree has no liberal arts requirement but does require minimum competencies in communication and quantitative skills.

Curriculum requirements for AOS:
- A program core or concentration of courses ranging from 48 to 57 credit hours, based upon the specific career. This concentration is designed to prepare students for entry-level positions by focusing on the methods, techniques and skills necessary to find employment upon graduation. Each program allows a minimum of nine credit hours of technical or free electives, which may include any credit course the College offers.

Certificates
Certificate programs require approximately 30 hours of course-work in a specific career area. Students do not earn an Associate’s degree, but most courses can be applied toward a degree if a student wishes to take additional courses later.
Program Link to Career or Transfer Paths

Use this guide to determine the best program of study for you.

<table>
<thead>
<tr>
<th>For a Career In:</th>
<th>Enroll in:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Accounting, Business</td>
</tr>
<tr>
<td>Advertising</td>
<td>Business Administration,</td>
</tr>
<tr>
<td>Anthropology</td>
<td>Fine Arts &amp; Design,</td>
</tr>
<tr>
<td>Art (fine arts, commercial art)</td>
<td>Liberal Arts &amp; Sciences: Humanities &amp; Social Sciences (Comm./Humanities)</td>
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<tr>
<td>Astronomy</td>
<td>Liberal Arts &amp; Sciences: Mathematics &amp; Science</td>
</tr>
<tr>
<td>Biochemistry, Biology, Bioinformatics, Biotechnology</td>
<td>Liberal Arts &amp; Sciences: Mathematics &amp; Science</td>
</tr>
<tr>
<td>Botany</td>
<td>Liberal Arts &amp; Sciences: Mathematics &amp; Science</td>
</tr>
<tr>
<td>Broadcasting – Radio/TV</td>
<td>Liberal Arts &amp; Sciences: Humanities &amp; Social Sciences (Comm./Humanities)</td>
</tr>
<tr>
<td>Business Administration</td>
<td>Business Administration</td>
</tr>
<tr>
<td>Business Education</td>
<td>Liberal Arts &amp; Sciences: Humanities &amp; Social Sciences (Comm./Humanities)</td>
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<td>Chemical Dependency Counseling</td>
<td>Chemical Dependency Counseling</td>
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<tr>
<td>Chemistry</td>
<td>Chemical Technology, Engineering Science,</td>
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<tr>
<td>Chemical Safety</td>
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<tr>
<td>Cell Biology</td>
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<td>Childhood Education</td>
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<td>Chiropractic</td>
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<tr>
<td>Climate Science</td>
<td>Liberal Arts &amp; Sciences: Education/Childhood Education</td>
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<tr>
<td>Computational Biology</td>
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<td>Computer Aided Drafting, Mechanical Technology: CAD Design</td>
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<tr>
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<td>Cybersecurity</td>
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<tr>
<td>Dentistry</td>
<td>Cybersecurity</td>
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<tr>
<td>Drafting/Design</td>
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<td>Early Childhood Education</td>
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<td>Economics</td>
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<tr>
<td>Electricity/Electronics</td>
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<td>English</td>
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<tr>
<td></td>
<td>Engineering Science, Technology programs</td>
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<td></td>
<td>Liberal Arts &amp; Sciences: Humanities &amp; Social Sciences (Comm./Humanities)</td>
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For the most up-to-date information, please visit SUNY Corning’s website.
<table>
<thead>
<tr>
<th>Degree of Study</th>
<th>Title</th>
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<tbody>
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<td>Environmental Science</td>
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<td>Evolutionary Biology</td>
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<tr>
<td>Film</td>
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<tr>
<td>Finance</td>
<td>Business Administration</td>
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<td>Forensics</td>
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<tr>
<td>Forestry</td>
<td>Environmental Science, Liberal Arts &amp; Sciences: Mathematics &amp; Science</td>
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<tr>
<td>Genetics</td>
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</tr>
<tr>
<td>Geology</td>
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</tr>
<tr>
<td>Gerontology</td>
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</tr>
<tr>
<td>Government</td>
<td>Liberal Arts &amp; Sciences: Humanities &amp; Social Sciences (Social Sciences)</td>
</tr>
<tr>
<td>Graphic Design</td>
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<tr>
<td>Health</td>
<td>Community and Public Health, Nursing</td>
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<tr>
<td>History</td>
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<td>Hospitality</td>
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<td>Hydrology</td>
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<tr>
<td>Immunology</td>
<td>Computer Information Science, Information Technology</td>
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<tr>
<td>Information Technology</td>
<td>Business Administration</td>
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<tr>
<td>International Studies</td>
<td>Liberal Arts &amp; Sciences: Humanities &amp; Social Sciences (Individual Studies)</td>
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<tr>
<td>Land Management</td>
<td>Business Administration</td>
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<tr>
<td>Languages (Interpreter/Translator/ Educator)</td>
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<td>Law</td>
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</tr>
<tr>
<td>Machining</td>
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<tr>
<td>Management</td>
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<td>Computer Information Science</td>
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<td>Mechanical Design</td>
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<td>Program</td>
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<td>Office Technology</td>
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<td>Radiologist/Radiology Technician</td>
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<td>Recreation</td>
<td>Community and Public Health</td>
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<td>Respiratory Therapy</td>
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<td>Sales &amp; Customer Service</td>
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<td>Television</td>
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<td>Theatre (Performance/Playwright)</td>
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<td>Toxicology</td>
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<td>Veterinary Medicine</td>
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<td>Wildlife Biology</td>
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<td>Zoology</td>
<td>Liberal Arts &amp; Sciences: Mathematics &amp; Science</td>
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</tbody>
</table>
Three academic divisions offer more than 30 programs and concentrations, and more than 800 credit and non-credit courses. In addition to daytime offerings on campus, a wide variety of credit and non-credit courses are taught in the evening and during the summer at various locations throughout Steuben, Chemung, Schuyler, Tioga and Yates counties. Specific preparation for programs will be found on the program pages.

To be eligible to receive financial aid, students must be accepted in one of the following approved programs.

<table>
<thead>
<tr>
<th>Program</th>
<th>Type</th>
<th>Degree</th>
<th>HEGIS Code</th>
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<tbody>
<tr>
<td>Accounting</td>
<td>Career</td>
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<td>Transfer</td>
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<td>Chemical Dependency Counseling</td>
<td>Career</td>
<td>AAS</td>
<td>5501</td>
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<td>Chemical Technology</td>
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<td>AAS</td>
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<td>Community and Public Health</td>
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<td>Computer Aided Drafting</td>
<td>Career</td>
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<td>5303</td>
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<td>Computer Information Science</td>
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<td>Computer Science</td>
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<td>Criminal Justice</td>
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<td>Cybersecurity</td>
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<td>Directed Studies</td>
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<td>Information Technology</td>
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<td>Liberal Arts &amp; Sciences:</td>
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<tr>
<td>Childhood Ed/Teacher Ed Transfer</td>
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<tr>
<td>Education/Childhood Education</td>
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<tr>
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<td>Mathematics &amp; Science</td>
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<td>Career</td>
<td>Certificate</td>
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<td>Mechanical Technology: CAD Design</td>
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<td>Nursing</td>
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<td>Police Basic Training</td>
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<tr>
<td>Teaching Assistant</td>
<td>Career</td>
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<td>5503</td>
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</table>
SUNY Transfer Paths
SUNY has created Transfer Paths that summarize the common lower division requirements shared by all SUNY campuses for similar majors within most disciplines. If you want to prepare for any of SUNY’s four-year institutions, the SUNY Transfer Paths will help you identify core coursework that will prepare you for multiple SUNY institutions. Below are disciplines. It is very important to consult your academic advisor for guidance before following these paths.

Adolescence Education
Adolescence Education: Inclusive Generalist Track
Anthropology
Art Education
Art Studio
Biology
Business
Chemistry
Childhood Education
Communication: Media
Communication: Non-Media
Community and Public Health
Computer Science
Criminal Justice/Criminology
Design
Dietetics
Early Childhood Education
Early Childhood/Childhood Education
Economics
Engineering: Aerospace
Engineering: Biomedical
Engineering: Chemical
Engineering: Civil
Engineering: Computer
Engineering: Electrical
Engineering: Environmental
Engineering: Industrial
Engineering: Mechanical
Engineering Technology: Civil
Engineering Technology: Electrical
Engineering Technology: Manufacturing
Engineering Technology: Mechanical
English
Environmental Sciences: Biophysical Track
Environmental Sciences: Social Science Track
Geography
Geology
Health Education
History
Hospitality Management
Mathematics
Media Production
Music Industry
Nursing
Nutrition Science
Physical Education
Physics
Political Science
Psychology
Social Work
Sociology
Spanish
Sport Management
Sustainability Studies
Technology Education
Theatre

More information about the SUNY Transfer Path’s tool is available at http://www.suny.edu/attend/get-started/transfer-students/suny-transfer-paths
Academic Programs
Accounting

Associate in Applied Science Degree, Career program
Division of Professional Studies

Associate Dean: Deborah Beall
Department Chair: Tim Bonomo

Upon completion, the AAS in Accounting program will prepare students for immediate entry-level positions such as bookkeeper, accounting clerk, office manager, accounts payable or accounts receivable clerk, tax preparer, or inventory clerk. The AAS in Accounting is designed as a terminal degree program. Those students seeking a four-year degree or higher in accounting should enroll in our Business Administration, Associate in Science degree transfer program.

Graduates are able to:

- Develop the basic skills required in designing and maintaining a moderately complex, double entry set of accounting records;
- Describe the theoretical foundations of the accounting discipline;
- Develop basic quantitative skills required by those who are employed in entry-level accounting positions;
- Understand basic written and oral communication skills required by those who are employed in entry-level accounting positions;
- Expose our graduates to “alternative” accounting systems;
- Understand computer technology and its relationship to the accounting field.

Program Requirements:

<table>
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<th>Requirement</th>
<th>Credits</th>
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<tr>
<td>Mathematics (MATH 1110 or higher)*</td>
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<tr>
<td>Social Sciences elective</td>
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<tr>
<td>Economics 1000 (or higher)</td>
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<tr>
<td>Humanities elective</td>
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</tr>
<tr>
<td>Laboratory Science elective</td>
<td>3</td>
</tr>
<tr>
<td>Program elective (see list below)</td>
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</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounting (ACCT 1030, 1040, 1060, 2030, 2050, 1100, 2100)</td>
<td>24</td>
</tr>
<tr>
<td>Business Applications (BUSN 1100)</td>
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<tr>
<td>Business Law I and II (BUSN 1231, 1232)</td>
<td>6</td>
</tr>
<tr>
<td>Management elective (MGMT 2041, 2042, 2045, or 2047)</td>
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</tr>
<tr>
<td>General Business (BUSN 1030)</td>
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<tr>
<td>Total hours</td>
<td>63</td>
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</tbody>
</table>

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters).

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>Financial Accounting (ACCT 1030)</td>
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<td></td>
<td>English (ENGL 1010)</td>
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<td></td>
<td>Mathematics (MATH 1110 or higher)</td>
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</tr>
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<td></td>
<td>Business Applications and Solutions (BUSN 1100)</td>
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<tr>
<td></td>
<td>Laboratory Science elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td>Second Semester</td>
<td>Economics 1000 (or higher)</td>
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<tr>
<td></td>
<td>English (ENGL1020)</td>
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</tr>
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<td>Managerial Accounting (ACCT1040)</td>
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<td></td>
<td>Fundamental Accounting Procedures (ACCT 1060)</td>
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<tr>
<td>Third Semester</td>
<td>Federal Income Tax (ACCT 1100)</td>
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<td></td>
<td>Intermediate Accounting I (ACCT 2030)</td>
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<tr>
<td></td>
<td>Social Sciences elective</td>
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</tr>
<tr>
<td></td>
<td>Business Communications (BUSN 1030)</td>
<td>3</td>
</tr>
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<td>Business Law (BUSN 1231)</td>
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<tr>
<td></td>
<td></td>
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</tr>
<tr>
<td>Fourth Semester</td>
<td>Business Law II (BUSN 1232 )</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Computerized Accounting (ACCT 2100)</td>
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<td></td>
<td>Cost Accounting (ACCT 2050)</td>
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<td>Program elective (see below)</td>
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<tr>
<td></td>
<td>Management elective (see program requirements)</td>
<td>3</td>
</tr>
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</table>

Footnotes:

* Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.
* Program Electives: select from PHIL 2500 or any courses with the following prefix: ACCT, BUOT, BUSN, ECON, HOSP, MGMT, MKTG
* Management Electives: select from courses with prefix MGMT
* This program is not intended for transfer. Students looking for the first two years of a four-year degree in accounting should enroll in the Business Administration AS transfer program.
* Take MATH 1215 or higher if planning to transfer to a four-year college.
Business Administration
Associate in Applied Science Degree, Career program
Division of Professional Studies
Associate Dean: Deborah Beall
Department Chair: Tim Bonomo

The (AAS) career program in Business Administration offers an excellent opportunity for students looking for employment following graduation with an Associate’s degree. This program enables students to develop the proficiencies necessary for entry-level employment in fields such as marketing, sales, management, customer service, office management, administrative support, and hospitality. The career program offers a range of program requirements and electives for entrepreneurs who want to develop the skills to start and manage a small business. While most of the coursework is centered on general business subjects, the diversity of liberal arts courses allows students a deeper understanding of business associates, customers, and others.

Graduates will be able to:
- Demonstrate the foundation of business knowledge required to successfully complete the transition to a position in business;
- Understand a broad based liberal arts education suitable to multiple applications and occupations;
- Provide educational enhancement opportunities for employers looking to increase the expertise of their employees.

Program Requirements:

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Credits</th>
<th>Course Name</th>
<th>Credits</th>
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<tr>
<td>Required Courses</td>
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<td>Business Concentration Requirements</td>
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<td>Mathematics (MATH 1110 or higher)*</td>
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<td>Accounting (ACCT 1000 or 1030)</td>
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<tr>
<td>Social Sciences elective</td>
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<td>Business Law I (BUSN 1231)</td>
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<tr>
<td>Economics elective (ECON 1000, 2001, or 2002)</td>
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<td>Applied Business Math (BUSN 1033)</td>
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<td>Humanities elective</td>
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<td>Business Communications (BUSN 1030)</td>
<td>3</td>
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<tr>
<td>Laboratory Science</td>
<td>3</td>
<td>Principles of Business (BUSN 1040)</td>
<td>3</td>
</tr>
<tr>
<td>Free electives</td>
<td>3</td>
<td>Business Applications and Solutions (BUSN 1100)</td>
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</tr>
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<td>Total hours</td>
<td>64</td>
<td>Total hours</td>
<td>64</td>
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Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Type</th>
<th>Credits</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>English (ENGL 1010)</td>
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<td>English (ENGL 1020)</td>
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<td>Principles of Business (BUSN 1040)</td>
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<td>Accounting (ACCT 1000 or 1030)</td>
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<td>Business Applications and Solutions (BUSN 1100)</td>
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<td>Business Communications (BUSN 1030)</td>
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</tr>
<tr>
<td></td>
<td>Mathematics (MATH 1110 or higher)</td>
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<td>Business Law I (BUSN 1231)</td>
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<td>Program elective†</td>
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<td>Professionalism (BUSN 1055)</td>
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<tr>
<td>Second Semester</td>
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<td></td>
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<tr>
<td></td>
<td>Economics elective</td>
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<td>Laboratory Science</td>
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<tr>
<td></td>
<td>Humanities elective (SPCH 1080 recommended)</td>
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<td>Social Sciences elective</td>
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<td>Applied Business Mathematics (BUSN 1033)</td>
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<td>Free elective</td>
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<tr>
<td></td>
<td>Program elective†</td>
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<td>Management elective²</td>
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</tbody>
</table>

Footnotes:
* Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.
†Program electives: Select from PHIL 2500; or courses with the following prefixes: ACCT, BUOT, BUSN, ECON, HOSP, MGMT, MKTG.
²Management Elective: Select from courses with the prefix: MGMT
**Business Administration**

**Associate in Science Degree, Transfer program**
Division of Professional Studies
Associate Dean: Deborah Beall
Department Chair: Tim Bonomo

Students seeking a bachelor’s degree in accounting, business, economics, marketing, sports marketing, business management, sports management, human resource management, operations, management, tourism, hospitality, entrepreneurship, or finance should take the Associate in Science (AS) degree transfer program of study. This program is designed to parallel the courses they would otherwise be taking during the first two years of study at a four-year college. A faculty advisor will guide students in selecting electives that will make transferring to a four-year college as efficient as possible. After completion of our AS degree, many students choose to work while finishing their bachelor’s degree, as Corning Community College has recently developed bachelor’s (four-year) degree completion and articulation agreements with other colleges in our region.

Graduates will be able to:
- Demonstrate the foundation of business knowledge required to successfully complete the next level of courses post CCC;
- Have the ability to complete a baccalaureate degree in two years post CCC;
- Have the opportunity to specialize in a variety of business-related areas;
- Achieve a broad-based liberal arts education suitable to multiple applications and transfer programs of study.

### Program Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English (ENGL 1010-1020)*</td>
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<td>Mathematics (MATH 1215 or higher)*</td>
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<td>Upper-level Mathematics (MATH 1510 or 1610)*</td>
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<td>Social Sciences (ECON 2001-2002)</td>
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<tr>
<td>Laboratory Science electives</td>
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<tr>
<td>Public Speaking (SPCH 1080)</td>
<td>3</td>
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<tr>
<td>Principles of Management (MGMT 2041)</td>
<td>3</td>
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<tr>
<td>Liberal Arts and Sciences elective</td>
<td>6</td>
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<tr>
<td>Accounting (ACCT 1030, 1040)</td>
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<tr>
<td>Principle of Business (BUSN 1040)</td>
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<tr>
<td>Business Law (BUSN 1231)</td>
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</tr>
<tr>
<td>Statistics (BUSN 2053)</td>
<td>4</td>
</tr>
<tr>
<td>Business Applications and Solutions (BUSN 1100)</td>
<td>3</td>
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<td>Principles of Marketing (MKTG 2050)</td>
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</tr>
<tr>
<td>Total hours</td>
<td>63</td>
</tr>
</tbody>
</table>

### Sample Sequence:

(***Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.**)

**First Semester**  
- Principles of Business (BUSN 1040)  
- English (ENGL 1010)  
- Business Applications and Solutions (BUSN 1100)  
- Mathematics* (MATH 1215 or higher)  
- Liberal Arts and Sciences elective  

**Second Semester**  
- Financial Accounting (ACCT 1030)  
- English (ENGL 1020)  
- Laboratory Science  
- Liberal Arts and Science elective  
- Economics (ECON 2001)  

**Third Semester**  
- Managerial Accounting (ACCT 1040)  
- Principles of Management (MGMT 2041)  
- Laboratory Science  
- Principles of Economics (ECON 2002)  
- Mathematics (MATH 1510 or MATH 1610)  

**Fourth Semester**  
- Principles of Marketing (MKTG 2050)  
- Statistics (BUSN 2053)  
- Program elective  
- Public Speaking (SPCH 1080)  
- Business Law I (BUSN 1231)  

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**Footnotes:**

**Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses. If a student needs to take lower-level math courses in preparation for the required math courses, the extra hours of math credit can be used as part of liberal arts and sciences electives. MATH 1215 does not satisfy prerequisites for MATH 1510 and MATH 1610.**

1. Program Elective: Select from courses with the following prefixes: ACCT, BUSN, ECON, MGMT, MKTG
2. Students should check with an advisor before scheduling a business elective to ensure that the course will transfer to the college of their choice. In special cases another course may be taken to fulfill this requirement if the student intends to transfer to a college which has unusual requirements. In such cases a waiver may be granted by the Associate Dean of Business Administration and Computing.

**Students who intend to pursue an accounting degree after transferring should add ACCT 1060 for a program total of 65 cr. hrs. and should determine whether both BUSN 1231 and BUSN 1060 are required.**

**Students in this program who plan to transfer to a SUNY college can meet 7 of the 10 SUNY Knowledge and Skills areas and 30 SUNY General Education credits. For more information on SUNY General Education requirements, refer to the catalog index or see an advisor.**
Chemical Dependency Counseling
Associate in Applied Science Degree, Career program
Division of Professional Studies
Associate Dean: Deborah Beall
Coordinator: Eric A. Smith

This program is designed to prepare students to enter the field of alcoholism and substance abuse treatment. Graduates will be able to:

- Use communication skills to understand consumer problems and assist in problem solving;
- Perform essential case management functions including interviewing, record keeping, gathering intake information, making referrals, and identifying consumer problems and issues;
- Maintain professional and ethical standards;
- Understand and respond to potential crisis issues and situations;
- Identify and contact human services resources and agencies in the community;
- Interact in group settings, including counseling and education groups provided for treatment purposes.

Corning Community College is a New York State Office of Alcoholism and Substance Abuse Service (OASAS) approved education provider. Required courses for the Chemical Dependency Counseling AAS meet OASAS requirements for 350 hours of training for NYS OASAS Credential Alcoholism and Substance Abuse Counselor (CASAC).

Program Requirements:

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Course Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020)*</td>
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<td>Human Services (HUSR 1030, 1040, 1510**, 1110, 1221, 1620, 2010, 2963, 2964)</td>
</tr>
<tr>
<td>Mathematics (MATH 1110 or higher)*</td>
<td>3</td>
<td>Health (HLTH 1202, 1203, 2900)</td>
</tr>
<tr>
<td>Social Sciences (SOCL 1010, PSY 1101)</td>
<td>6</td>
<td>Wellness (Activity Component)</td>
</tr>
<tr>
<td>Laboratory Science (BIOL 1050 recommended)</td>
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<td>Total hours</td>
</tr>
<tr>
<td>Free electives (see advisor for suggestions)</td>
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<td></td>
</tr>
</tbody>
</table>

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

First Semester
- English (ENGL 1010) | 3
- Mathematics (MATH 1110 or higher) | 3
- Psychology or Sociology (PSY 1101, SOCI 1010) | 3
- Substance Use Disorder Counseling I (HUSR 1110) | 3
- Health (HLTH 1202 or 1203) | 3
- Wellness (Activity Component) | 1

Second Semester
- English (ENGL 1020) | 3
- Laboratory Science (BIOL 1050) | 3
- Psychology or Sociology (PSY 1101 or SOCI 1010) | 3
- Introduction to Helping Skills (HUSR 1030) | 3
- Health (HLTH 1202 or 1203) | 3
- Peer Recovery Advocacy and Coaching (HLTH 2900) | 3

Third Semester
- Ethics Human Serv/Chem Dep. (HUSR 1620) | 3
- Human Services II (HUSR 1040) | 3
- Group Dynamics (HUSR 1510) | 3
- Therapeutic Crisis Intervention (HUSR 1221) | 3
- Substance Use Disorder Counseling II (HUSR 2010) | 3
- Free electives | 1

Fourth Semester
- Human Services Practicum I & II (HUSR 2963, 2964) | 12
- Free elective | 3

Footnotes:
1. Statistics is recommended for students interested in transfer.
2. It is recommended that HUSR 2963 and 2964 be taken together in the fourth semester. The practicum may be taken in separate semesters only with the Department Chair's approval. These courses may be taken only with the permission of the Instructor and must be completed within a drug/alcohol treatment facility.
3. One credit will be used toward the instructional/awareness component of the Wellness requirement.

* Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and math courses.
Chemical Technology
Associate in Applied Science Degree, Career program
Division of STEM
Associate Dean: Bradley Cole
Department Chair: David Pindel

Chemical technicians work in research, process improvement, product development, measurement documentation, environmental testing, and quality control. They help design, setup, and analyze experiments in research, product/process development and quality control. They select and order materials and equipment, operate sophisticated instruments, and perform physical and chemical analyses on raw materials and products. Chemical technicians do experiments to obtain reliable data and use computers to analyze data and communicate information. They often work with other professionals to solve problems. The Chemical Technology program is flexible. It emphasizes fundamentals and practical applications in order to train students for immediate employment and prepares them to continue to work towards an advanced degree. Students will have the opportunity to participate in a work internship that will assist them to experience on-the-job reality and gain skills that will enhance their ability to procure employment after graduation. Students in the Chemical Technology program may be required to complete a criminal background check, child abuse screening, and/or drug testing due to the requirements of their internship location. Acceptable results will be determined by the internship site.

Graduates will be able to:
- Operate laboratory instruments, perform reliable scientific measurements;
- Use chemical and technical language, design experiments, evaluate experimental design;
- Prepare samples for experiments;
- Write standard operating procedures (SOPs);
- Document results of experiments;
- Analyze scientific data;
- Use quality control measures in scientific experiments;
- Perform common chemical calculations, and draw chemical structures using computer programs;
- They will locate information in databases and evaluate scientific journal articles.

Opportunities for employment are excellent and feedback from those who have transferred to institutions such as Syracuse, RIT, University of Rochester, Penn State, Cornell, and Alfred indicates CCC students are well prepared academically.

**Program Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020)*</td>
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</tr>
<tr>
<td>Social Sciences electives</td>
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</tr>
<tr>
<td>Mathematics (MATH 1215 or higher)*</td>
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<tr>
<td>Chemistry (CHEM 1510-1520) or (CHEM 1010-1020) &amp; (CHEM 2010, 2020, 2033, 2043)</td>
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<tr>
<td>Elementary Statistics (MATH 1310)</td>
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<td>Program electives (3 courses from list below)*</td>
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<tr>
<td>Wellness</td>
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<tr>
<td>Total hours</td>
<td>64</td>
</tr>
</tbody>
</table>

**Sample Sequence:** (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

**First Semester**
- English (ENGL) 3
- Mathematics (MATH 1215 or higher) 3
- Chemistry (CHEM 1510 or 1020) 4
- Social science elective 3
- Program elective (MECH 1050 recommended) 3
- Wellness 1

**Second Semester**
- English (ENGL 1020) 3
- Mathematics (MATH 1225 or higher) 3
- Chemistry (CHEM 1520 or 1010) 4
- Social Sciences elective 3
- Program elective 3

**Third Semester**
- Organic Chemistry I (CHEM 2010) 5
- Analytical Chemistry (CHEM 2033) 5
- Elementary Statistics (MATH 1310) 4
- Wellness 1

**Fourth Semester**
- Organic Chemistry II (CHEM 2020) 5
- Chemical Instrumentation (CHEM 2043) 5
- Program elective (CHTK 2960 recommended) 3
- Free elective 3

Footnotes:
1 For those who have recently successfully completed high school chemistry, CHEM 1510-1520 should be selected.
2 Program electives: Select courses from the following: BIOL 1510 or higher; CHTK 2960; ENGR 1030 or higher; MECH 1050 or higher; ELEC 1010 or higher; GEOL 1510 or 1530; GLSS 10; GLSS 20; MATH 1413 or higher; MFNT 1010, MFNT 2020; PHYS 1010 or higher; TECH 1110; TECH 1120; CSST 1091.

* Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and math courses.
Community and Public Health
Associate in Science Degree, Transfer program
Division of Professional Studies
Associate Dean: Deborah Beall
Department Chair: Eric Smith
Department Coordinator: Rosemary Anthony

Public and Community Health Education is a field with many opportunities and room to grow and explore. This program can provide you with the introductory, but specialized knowledge and skills you need to address current and emerging public and community health issues. With the rapid development of new technologies for disease prevention and promotion of health, public and community health professionals require a broad-ranging education with emphases on problem-solving skills and an understanding of the complexity of creating individual and community health. Biostatisticians apply statistical theory, methods, and techniques to the planning, development, and evaluation of health programs and problems. They collect and analyze various types of information such as demo-graphic and vital statistics, social and business data, health resources statistics, and other forms of social and economic data that are relevant to modern health problems. Upon completion, transfer degree options include health education, health promotion, wellness, nutrition, public health, health management or epidemiology/biostatistics. An A.S. in Public and Community Health offers you a foundation that will prepare you for further education and a career in service to humanity.

Graduates are able to:
• Demonstrate the ability to interpret and analyze evidence-based health and wellness information in order to make sound decisions and solve problems as they apply to community and public health.
• Demonstrate basic knowledge and skills in assessment, planning, implementation and evaluation of individual and community health needs.
• Identify and utilize behavioral strategies to promote positive lifestyle choices and improve the health of individuals and communities.
• Demonstrate proficiency in suitable technologies, scientific inquiry skills and communication strategies relevant to community and public health issues;
• Demonstrate the ability to discuss and integrate the importance and influence of social and cultural factors and their effects on public health.

High school or equivalent preparation required

### Program Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020)</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (MATH 1215 and MATH 1225, 1310, or higher)</td>
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</tr>
<tr>
<td>Laboratory Science (BIOL 1050, 1060, 1210, 1500, CHEM 1030, ERTH 1010, GEOL 1530 or other)</td>
<td>6</td>
</tr>
<tr>
<td>Psychology (PSYC 1101)</td>
<td>3</td>
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<tr>
<td>Sociology (SOCI 1010)</td>
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</tr>
<tr>
<td>Speech (SPCH 1060 or 1080)</td>
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</tr>
<tr>
<td>Liberal Arts and Sciences electives</td>
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</table>

### Core Program Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Foundations of Personal Health (HLTH 1207)</td>
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<tr>
<td>Principles of Community Health (HLTH 1700)</td>
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<tr>
<td>Global Health (HLTH 1400)</td>
<td>3</td>
</tr>
<tr>
<td>Intro to Nutrition (HLTH 1510)</td>
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### Program Requirements (depending on track):

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
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<td>19</td>
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</table>

Total hours: 64
### Health Education Track

**Sample Sequence:** (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition I (ENGL 1010) 3</td>
<td>English Composition II (ENGL 1020) 3</td>
</tr>
<tr>
<td>College Mathematics I (MATH 1215 or higher) 3</td>
<td>College Mathematics II (MATH 1225 or higher) 3</td>
</tr>
<tr>
<td>Principles of Anatomy &amp; Physiology I (BIOL 1210) 4</td>
<td>Principles of Anatomy &amp; Physiology II (BIOL 1220) 4</td>
</tr>
<tr>
<td>Intro to Psychological Sciences (PSYC 1101) 3</td>
<td>Intro to Health Education and Wellness (HLTH 2212) 3</td>
</tr>
<tr>
<td>Foundations of Personal Health (HLTH 1207) 3</td>
<td>Introduction to Sociology (SOCI 1010) 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Speaking (SPCH 1060 or 1080) 3</td>
<td>Elective (Am. Hist., West. Civ., Art, or Foreign Language) 3</td>
</tr>
<tr>
<td>Elective (PSYC 2207, 2208, 2209, 2214, 2215, 2221, SOCI 2000 or 2210) 3</td>
<td>Intro to Nutrition (HLTH 1510) 3</td>
</tr>
<tr>
<td>Principles of Comm &amp; Public Health (HLTH 1700) 3</td>
<td>Human Sexuality (HLTH 1201) 3</td>
</tr>
<tr>
<td>Perspectives of Drugs and Society (HLTH 1202) 3</td>
<td>Electives (Health, Wellness, Phys. Ed. Prof. Dev, PEPD) 6</td>
</tr>
<tr>
<td>Foreign Language 4</td>
<td>Global Health (HLTH 1400) 3</td>
</tr>
</tbody>
</table>

### Community and Public Health Track

**Sample Sequence:** (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition I (ENGL 1010) 3</td>
<td>English Composition II (ENGL 1020) 3</td>
</tr>
<tr>
<td>College Mathematics I (MATH 1215 or higher) 3</td>
<td>College Mathematics II (MATH 1225 or higher) 3</td>
</tr>
<tr>
<td>Laboratory Science (BIOL 1050 or 1210) 3</td>
<td>Laboratory Science (BIOL 1500, 1060, 1220, CHEM 1030, ERTH 1010, GEOL 1530, or other lab science) 3</td>
</tr>
<tr>
<td>Intro to Psychological Sciences (PSYC 1101) 3</td>
<td>Foreign Language (including sign language) 4</td>
</tr>
<tr>
<td>Foundations of Personal Health (HLTH 1207) 3</td>
<td>Intro to Sociology (SOCI 1010) 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Speaking (SPCH 1060 or 1080) 3</td>
<td>Stress Management (HLTH 2400) 3</td>
</tr>
<tr>
<td>Intro to Nutrition (HLTH 1510) 3</td>
<td>Fundamentals of Epidemiology &amp; Biostatistics (HLTH 2800) 3</td>
</tr>
<tr>
<td>Principles of Comm and Public Health (HLTH 1700) 3</td>
<td>Grant Writing and Fundraising (HLTH 1610) 3</td>
</tr>
<tr>
<td>Liberal Arts and Science elective 6</td>
<td>Global Health (HLTH 1400) 3</td>
</tr>
<tr>
<td>(Must be from 2 different categories: Amer Hist, Western Civ, Art, or Foreign Language)</td>
<td>Internship (INTR) 3</td>
</tr>
</tbody>
</table>
### Allied Health Track

**Sample Sequence:** (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition I (ENGL 1010)</td>
<td>3</td>
</tr>
<tr>
<td>College Mathematics I (MATH 1215 or higher)</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Anatomy &amp; Physiology I (BIOL 1210)</td>
<td>4</td>
</tr>
<tr>
<td>Intro to Psychological Sciences (PSYC 1101)</td>
<td>3</td>
</tr>
<tr>
<td>Foundations of Personal Health (HLTH 1207)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Speaking (SPCH 1060 or 1080)</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>(PSYC 2207, 2208, 2209, 2214, 2215, 2221, SOCI 2000 or 2210)</td>
<td></td>
</tr>
<tr>
<td>Principles of Comm &amp; Public Health (HLTH 1700)</td>
<td>3</td>
</tr>
<tr>
<td>Perspectives of Drugs and Society (HLTH 1202)</td>
<td>3</td>
</tr>
<tr>
<td>Microbiology (BIOL 2010)</td>
<td>4</td>
</tr>
</tbody>
</table>
Computer Aided Drafting (CAD)
Certificate, Career program
Division of STEM
Associate Dean: Bradley Cole
Department Chair: John Longwell

Drafting is an intensive program emphasizing the development of manual and computer aided (CAD) drafting skills. Graduates will have hands on knowledge of machining process for the creation of machine components from raw stock to quality control inspection using the ANSI standard for geometric dimensioning and tolerance. Should students decide to continue their education in the pursuit of an A.A.S degree in technology, the majority of these courses apply directly to the A.A.S. degree programs in Mechanical Technology: CAD Design, Manufacturing, and Machine Tool Technology as directed below.**

Graduates will be able to:
- Develop skills to use AutoCAD and SolidWorks to create working drawings to expected industry standards.
- Produce 2-D drawings and 3-D models for import into computer assisted manufacturing (CAM) software for computer numerical control (CNC) machining program generation;

While not a specific program requirement, in order to graduate from this program students must demonstrate the writing skills necessary to enter ENGL 1010, College Composition I.

### Program Requirements

<table>
<thead>
<tr>
<th>Technical Concentration</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CADD 1700, 2710; MACH 1040; MECH 1050, 1550, 1560, 1570; TECH 1120)</td>
<td></td>
</tr>
<tr>
<td>Mathematics (MATH 1230 or higher)*</td>
<td>3</td>
</tr>
<tr>
<td>Electives (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>Total hours</td>
<td>30</td>
</tr>
</tbody>
</table>

#### Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in two semester.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics (MATH 1230 or higher)</td>
<td>Engineering Graphics II (MECH 1550)</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Engineering Graphics I (MECH 1050)</td>
<td>CNC Programming (MECH 1560)</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Spreadsheet Applications in Technology (TECH 1120)</td>
<td>Dimensional Metrology (MECH 1570)</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Precision Machining I (MACH 1040)</td>
<td>Computer Aided Drafting II (CADD 2710)</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Computer Aided Drafting I (CADD 1700)</td>
<td>Electives</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

Footnotes:
* Based on placement, students might be required to successfully complete preparatory course(s) before attempting further course or program requirements. It is essential to discuss this with an advisor.
* Electives: Select from ENGL 1010; MATH 1240; GEOG 1210; and any CADD, CRST, ELEC, MACH, MECH, MFGT, TECH course.
* Mechanical drawing experience is recommended.
**21 of the 30 credit hours of this program apply towards the specific 64 credit requirement of the Machine Tool Technology A.A.S. program allowing a student the opportunity to apply the credits earned in the certificate towards the completion of a two-year degree.
* 24 of the 30 credit hours of this program apply towards the specific 64 credit requirement of the Manufacturing Technology A.A.S. program allowing a student the opportunity to apply the credits earned in the certificate towards the completion of a two-year degree.
* 24 of the 30 credit hours of this program apply towards the specific 64 credit requirement of the Mechanical Technology: CAD Design A.A.S. program allowing a student the opportunity to apply the credits earned in the certificate towards the completion of a two-year degree.
Computer Numerical Control Programming
Certificate, Career program
Division of STEM
Associate Dean: Bradley Cole
Department Chair: John Longwell

This certificate is designed to prepare students for a position operating or writing coded instructions (programs) for automated computer numerically controlled (CNC) machines. Programming is done both by hand and with the use of PC based automatic programming (Mastercam) software. CNC programs are written in both standard M & G code and conversational formats. Machining experience is acquired through the operation of both CNC machining centers and conventional machine tools, which include two vertical and one horizontal machining centers (two of which are equipped with automatic tool changers), and an array of standard milling, grinding, and turning machines (some of which are equipped with state-of-the-art digital readout systems). Inspection devices used include optical comparators, coordinate measuring machines, digital height gauges, as well as other traditional measuring tools. Students with experience in the machine trades or other technical occupations may qualify for some credit through challenge examinations. They should discuss this with their faculty advisor.

Graduates will be able to:
• Have the tools necessary to program in both a production and tool-shop environment;
• Generate CNC code by both manual and computer-assisted methods;
• Understand the aspects of machine programs, tooling and first piece inspection, and state-of-the-art software and hardware systems.

While not a program requirement, students must demonstrate the writing skills necessary to enter ENGL 1010 in order to graduate from this program. Based on assessment, students might be required to take developmental English to fulfill this requirement. High school or equivalent preparation is required; it is also recommended that students have at least the equivalent of two years mathematics including algebra and either geometry or intermediate algebra. Some required classes are held at off-site locations evenings and weekends. Students must provide their own transportation.

<table>
<thead>
<tr>
<th>Program Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precision Machining I (MACH 1040)</td>
</tr>
<tr>
<td>CNC Programming (MECH 1560)</td>
</tr>
<tr>
<td>CNC Machining (MACH 2400)</td>
</tr>
<tr>
<td>Tooling Technology (MACH 2410)</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Sample Sequence: (intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

First Semester
Precision Machining (MACH 1040) | 5 |
Mathematics (MATH 1230) | 3 |

Second Semester
CNC Programming (MECH 1560) | 3 |
Mathematics (MATH 1240) | 3 |
Engineering Graphics I (MECH 1050) | 3 |

Third Semester
CNC Machining (MACH 2400) | 5 |
Computer Aided Drafting I (CADD 1700) | 3 |

Fourth Semester
Tooling Technology (MACH 2410) | 4 |
Dimensional Metrology (MECH 1570) | 3 |

Footnotes:
*Based on placement, students may be required to take MATH 0960, before taking math credit courses.
*29 of the 32 credit hours of this program apply towards the specific 64 credit requirement of the Machine Tool Technology A.A.S. program allowing a student the opportunity to apply the credits earned in the certificate towards the completion of a two-year degree.
*18 of the 32 credit hours of this program apply towards the specific 64 credit requirement of the Manufacturing Technology A.A.S. program allowing a student the opportunity to apply the credits earned in the certificate towards the completion of a two-year degree.

*18 of the 32 credit hours of this program apply towards the specific 64 credit requirement of the Mechanical Technology: CAD Design A.A.S. program allowing a student the opportunity to apply the credits earned in the certificate towards the completion of a two-year degree.
Computer Science
Associate in Science Degree, Transfer Program
Division of STEM
Associate Dean: Bradley Cole
Coordinator: Joe Oppenheim

Students in the Computer Science program are educated in the design and implementation of system software. The program provides the first two years of a baccalaureate computer science degree with transfer options that include scientific programming, systems programming, systems design, computer engineering, and other computer-related disciplines. Graduates of computer science programs commonly seek employment with computer manufacturers or software houses that specialize in system software.

Graduates will be able to:
• Demonstrate knowledge and understanding of essential facts, concepts, principles, and theories relating to computer science;
• Understand and demonstrate the structure of mathematics in its relation and application to computer science;
• Apply knowledge and skills to solve problems effectively and efficiently;
• Communicate effectively with a range of audiences;
• Understand the professional, ethical, security and social issues and responsibilities in computer science.

<table>
<thead>
<tr>
<th>Program Requirements:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
<td>Computer Science (CSCS 1240, 1320, 1730, 2650)</td>
<td>25</td>
</tr>
<tr>
<td>Mathematics (MATH 1413 or higher)*</td>
<td>8</td>
<td>2320, 2330, 2650 and CSCS 1200</td>
<td>25</td>
</tr>
<tr>
<td>Laboratory Science electives¹</td>
<td>6</td>
<td>Humanities electives¹</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences electives¹</td>
<td>3</td>
<td>Program electives² (see list below)</td>
<td>6</td>
</tr>
<tr>
<td>Liberal Arts &amp; Sciences electives</td>
<td>6</td>
<td>Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total hours</td>
<td>64</td>
<td>64</td>
</tr>
</tbody>
</table>

Sample Sequence: (intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

First Semester
Program Elective (CSNT 1200 recommended) ² | 3               | Second Semester |
| Structured and Object-Oriented Problem-Solving (CSCS 1240) | 3               | C/C++ Programming (CSCS 1320) | 4               |
| Computer Essentials (CSCS 1200) | 4               | UNIX/Linux Fundamentals (CSCS 1730) | 4               |
| Mathematics (MATH 1413 or higher)³ | 4               | Mathematics (MATH 1610 or higher)³ | 4               |
| English (ENGL 1010) | 3               | English (ENGL 1020) | 3               |

Third Semester
Humanities elective¹ | 3               | Fourth Semester |
| Laboratory Science elective¹ | 3               | Computer Organization (CSCS 2650) | 4               |
| Liberal Arts and Science elective¹ | 3               | Program elective² | 3               |
| Data Structures (CSCS 2320) | 3               | Liberal Arts & Sciences electives¹ | 3               |
| Discrete Structures (CSCS 2330) | 3               | Laboratory Science elective¹ | 3               |

Footnotes:
1 Select to fulfill requirements of transfer college. If using PHYS for laboratory science elective, select PHYS 1010 or higher
2 Select from CSBS, CSIT, CSNT, CSON, or CSWT; select to fulfill requirements of transfer college.
3 A transfer college will typically require Calculus II or higher levels of math for Computer Science. Select to fulfill requirements of transfer college.
* Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.
* Students in this program who plan to transfer to a SUNY college can meet 7 of the 10 SUNY Knowledge and Skills areas and 30 SUNY General Education credits. For more information on SUNY General Education requirements, refer to the catalog index or see an advisor.
* Since programs at transfer colleges vary greatly, it is essential that students meet early with their advisor in order to select appropriate electives.
* High school or equivalent preparation required: biology, chemistry or physics and four years of mathematics, including algebra, geometry or intermediate algebra, trigonometry, and pre-calculus. Students who don’t have this preparation will be able to get it here, but it may take longer to complete the program.
Criminal Justice
Associate in Applied Science Degree, Career program
Division of Professional Studies
Associate Dean: Deborah Beall

A rewarding, action-oriented career in Criminal Justice begins with a balanced combination of law enforcement theory and practical experience. Anchored in a solid curriculum that includes liberal arts courses, the Criminal Justice program prepares students for careers in law enforcement, security, investigation, corrections, military intelligence, and other related professions. To qualify for positions in the criminal justice field, graduates usually must pass a written civil service examination, physical agility tests and are subject to background investigations.

Graduates will be able to:
• Demonstrate knowledge of the criminal justice system, the causes of criminal conduct, and the response to criminal behavior;
• Demonstrate beginning application of law;
• Understand the value of ethical behavior in the administration of justice;
• Apply critical thinking in criminal justice;
• Apply beginning technical proficiencies;
• Use appropriate communication skills;
• Demonstrate awareness of our pluralistic society to foster understanding and tolerance.

Hands-on experience combines with studies in government, law, psychology, and literature to develop the competence needed for the variety of demands placed daily on criminal justice personnel. Recognized throughout the northeast as an exceptional educational facility, the CCC Criminal Justice Complex, located on Goff Road (Exit 48, Route 352) in East Corning, features state-of-the-art investigative tools. It is also a New York State regional training center that certifies law enforcement officers.

Newly added to this program is a Law Enforcement Track. Students who choose this option will attend CCC’s Southern Tier Law Enforcement track typically in their fourth and final semester.* Graduates in the Law Enforcement Track will have attained a level of expertise in the areas of New York State laws, crime scene investigations, physical training, defensive tactics, emergency medical services, emergency vehicle operations, and many other ancillary police activities sufficient for New York State Phase I Certification. Graduates will receive both an Associate in Applied Science degree in Criminal Justice and Police Basic Training certification. Students interested in this option must apply; acceptance is not guaranteed and is determined in part based on successful completion of a background check, physical fitness requirements, and an oral board interview.

*Note that the Southern Tier Law Enforcement Academy is offered in the Spring semester only. Students who begin this program in Spring or Summer semesters will require careful advising to ensure preparation for an academy session prior to their final semester.

Criminal Justice Track

<table>
<thead>
<tr>
<th>Program Requirements:</th>
<th></th>
<th>Criminal Justice (CRJ 1010, 1030, 1040, 1050, 2015, 2025, 2050)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020)*</td>
<td>6</td>
<td>Criminal Justice electives ***</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics (MATH 1110 or higher; 1150 recommended)*</td>
<td>3</td>
<td>Free electives</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences (PSYC 1101 and SOCI 1010)</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Sciences elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government (GOVT 1010, 1020, 2040)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laboratory Science (see list below) **</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total hours</strong></td>
<td>63</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Sample Sequence:
(Exemplar intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English (ENGL 1010)</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td><strong>Mathematics (MATH 1150 recommended)</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td><strong>Introduction to Criminal Justice (CRJ 1010)</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td><strong>Criminal Procedure Law (CRJ 1040)</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td><strong>Social Sciences (PSYC 1101 or SOCI 1010)</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td><strong>Wellness (Awareness Component)</strong></td>
<td><strong>1</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Criminal Evidence &amp; Procedures (CRJ 2025)</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td><strong>Criminal Investigations (CRJ 2015)</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td><strong>Criminal Justice electives</strong></td>
<td><strong>5</strong></td>
</tr>
<tr>
<td><strong>Government (GOVT 1010, 1020, 2040)</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td><strong>Wellness Activity</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Law Enforcement Track

<table>
<thead>
<tr>
<th>Program Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English (ENGL 1010 and 1020)</strong></td>
</tr>
<tr>
<td><strong>Mathematics (MATH 1110 or higher; 1150 recommended)</strong></td>
</tr>
<tr>
<td><strong>Social Sciences (SOCI 1010 and PSYC 1101 or SOCI 2310)</strong></td>
</tr>
<tr>
<td><strong>Government (GOVT 1010, 1020, or 2040)</strong></td>
</tr>
<tr>
<td><strong>Laboratory Science (see list below)</strong></td>
</tr>
<tr>
<td><strong>Criminal Justice (CRJ 1010, 1030, 1040, 1540, 1550, 1560, 1570, 1580, 1590, 2050)</strong></td>
</tr>
<tr>
<td><strong>Cooper Norms Fitness Preparation (PEPD 1018)</strong></td>
</tr>
<tr>
<td><strong>Police Report Writing (ENGL 1410)</strong></td>
</tr>
<tr>
<td><strong>Guided Program Electives</strong>*</td>
</tr>
<tr>
<td><strong>Total hours</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
</tr>
<tr>
<td><strong>English (ENGL 1010)</strong></td>
</tr>
<tr>
<td><strong>Mathematics (MATH 1110 or higher)</strong></td>
</tr>
<tr>
<td><strong>Introduction to Criminal Justice (CRJ 1010)</strong></td>
</tr>
<tr>
<td><strong>Criminal Procedure Law (CRJ 1040)</strong></td>
</tr>
<tr>
<td><strong>Social Sciences (SOCI 1010)</strong></td>
</tr>
</tbody>
</table>

| **Third Semester** |
| **Criminal Justice Ethics (CRJ 2050)** | **3** |
| **Government (GOVT 1010, 1020, 2040)** | **3** |
| **Cooper Norms Fitness Preparation (PEPD 1018)** | **3** |
| **Guided Program Electives** | **6** |

| **Fourth Semester** |
| **Police Physical Conditioning/Wellness (CRJ 1540)** | **2** |
| **Police Basic Procedures (CRJ 1560)** | **3** |
| **Police Community Interaction (CRJ 1570)** | **3** |
| **Police Investigation (CRJ 1580)** | **3** |
| **Police Certified First Responder (CRJ 1590)** | **2** |
| **Police Report Writing (ENGL 1410)** | **2** |
| **Laws of NY State (CRJ 1550)** | **3** |

### Footnotes:
*Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.

**Laboratory Science recommended: BIOL, CHEM, or SCIN 1030-1040. Some BIOL and CHEM courses will not be appropriate.

***For criminal justice elective, select any GOVT course, HUSR 1121, 1221, 1581, 1582, 1590 or PSYC 2030, 2208, 2214, SOCI 2000, 2030, 2310, 2210 or any CRJ course not required for the AAS degree.

****For guided program electives, select from BUSN 1055, 1100, HLTH 1202, 1203, 1207, 2400, HUSR 1121, 1221, 1510, 1581, 1582, 1590, PSYC 2030, 2208, 2214, SIGN 1010, 1020, SOCI 2000, 2030, 2210, 2310, SPAN 1010, 1020, 2010, 2020, or any CRJ course not already required for this program.

It is highly recommended that students in this program see their academic adviser each semester to plan their schedules.
Criminal Justice

Associate in Science Degree, Transfer program

Division of Professional Studies

Associate Dean: Deborah Beall

This program provides a core of criminal justice courses meshed with a sound liberal arts foundation designed for students planning to transfer to baccalaureate programs in the criminal justice field. Students will be prepared for future leadership positions in criminal justice. They will learn to think critically, communicate effectively, and develop a sound ethical base for decision making.

Graduates will be able to:
- Demonstrate knowledge of the criminal justice system, causes of criminal conduct, and responses to criminal behavior;
- Demonstrate a knowledge of the evolution of criminal law and an understanding of the values and ethics essential to the administration of justice.
- Students will be practiced in social science research methods and skilled in preparing research proposals and will demonstrate an awareness of our pluralistic society to foster understanding and tolerance.

High school or equivalent preparation required: Strong communication and computation skills are recommended.

**Program Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020)*</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (MATH 1215 or higher and MATH 1310)*</td>
<td>7</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td>6</td>
</tr>
<tr>
<td>Free elective²</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences (PSYC 1101; SOCI 1010, 2310; and either PSYC 2206 or SOCI 2060)</td>
<td>12</td>
</tr>
<tr>
<td>Government (GOVT 1010, 1020, or 2040)</td>
<td>3</td>
</tr>
<tr>
<td>Criminal Justice (CRJ 1010, 1050, 2030, 2040, 2050, 2203)</td>
<td>18</td>
</tr>
<tr>
<td>Spanish (SPAN 1010 or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Wellness (PFIT 1015 and WELL 1010 recommended)</td>
<td>2</td>
</tr>
<tr>
<td>Total hours</td>
<td>64</td>
</tr>
</tbody>
</table>

**Sample Sequence:** (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010)*</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics (MATH 1215 or higher)*</td>
<td>3</td>
</tr>
<tr>
<td>Psychology (PSYC 1101)</td>
<td>3</td>
</tr>
<tr>
<td>Free elective</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Criminal Justice (CRJ 1010)</td>
<td>3</td>
</tr>
<tr>
<td>Wellness Awareness or Activity</td>
<td>1</td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1020)</td>
<td>3</td>
</tr>
<tr>
<td>Elementary Statistics (MATH 1310)</td>
<td>4</td>
</tr>
<tr>
<td>Penal Law (CRJ 1050)</td>
<td>3</td>
</tr>
<tr>
<td>Sociology (SOCI 1010)</td>
<td>3</td>
</tr>
<tr>
<td>Government (GOVT 1010, 1020, or 2040)</td>
<td>3</td>
</tr>
<tr>
<td>Wellness Activity or Awareness</td>
<td>1</td>
</tr>
</tbody>
</table>

**Third Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Science</td>
<td>3</td>
</tr>
<tr>
<td>Evolution of Criminal Law (CRJ 2030)</td>
<td>3</td>
</tr>
<tr>
<td>Sociology of Crime and Delinquency (SOCI 2310)</td>
<td>3</td>
</tr>
<tr>
<td>Treatment of Criminal Offender (CRJ 2203)</td>
<td>3</td>
</tr>
<tr>
<td>Free elective</td>
<td>3</td>
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</tbody>
</table>

**Fourth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Science</td>
<td>3</td>
</tr>
<tr>
<td>Constitution and the Accused (CRJ 2040)</td>
<td>3</td>
</tr>
<tr>
<td>Research Methods in Social Sciences</td>
<td></td>
</tr>
<tr>
<td>Spanish (SPAN 1010)</td>
<td>4</td>
</tr>
<tr>
<td>Criminal Justice Ethics (CRJ 2050)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Footnotes:**

1 Students transferring to Alfred University must take two Activity courses
2 Students transferring to Alfred University must take PHIL 1010 or 2010
3 Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.
4 Students in this program who plan to transfer to a SUNY college can meet 7 of the 10 SUNY Knowledge and Skills areas and 30 SUNY General Education credits. For more information on SUNY General Education requirements, refer to the catalog index or see an advisor.
Cybersecurity
Associate in Science Degree, Transfer program
Division of STEM
Associate Dean: Bradley Cole
Coordinator: Joe DeLeone

In an increasingly networked world, the threat to critical infrastructures and personal data is real and pervasive. There is a clear need for skilled professionals to help prevent damaging and costly security breaches. This program places emphasis on the fundamental skills and knowledge required to safeguard an organization’s information and defend systems while preparing students for successful transfer to a 4-year institution to continue their studies in computer and/or network security related field. Any student enrolling or currently enrolled in the program is required to inform the department chair of any prior felony convictions or felony convictions that occur while the student is enrolled in the program; enrollment in the program is then contingent on approval by the department chair.

Graduates are prepared to:
- Demonstrate knowledge and understanding of essential facts, concepts, design principles, policies, laws and threats relating to computer and network security
- Identify and explain the impact of technology on individuals and organizations, including security and ethical issues
- Demonstrate the ability to program effectively and securely
- Configure and administer systems and networks with an understanding of vulnerabilities and defensive techniques utilized to keep data secure
- Communicate effectively with individuals in and outside of the field.

**Program Requirements:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020)</td>
<td>6</td>
<td>Computer Courses (CSNT1200, CSNT1500 or CRST1010, CSNS1610, CSNS2620, CSCS1240, CSCS1730, CSCS1320 or CSCS2420, CSIT2400)</td>
</tr>
<tr>
<td>Mathematics (MATH 1310 and 1413 or higher)</td>
<td>8</td>
<td>28-29</td>
</tr>
<tr>
<td>Laboratory Science (PHYS 1730-1740)</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences elective</td>
<td>3</td>
<td>Philosophy (PHIL 2010)</td>
</tr>
<tr>
<td>Humanities elective</td>
<td>3</td>
<td>Wellness (Activity and/or Awareness)</td>
</tr>
<tr>
<td>Liberal Arts &amp; Science elective</td>
<td>3</td>
<td>Total hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>63-64</td>
</tr>
</tbody>
</table>

**Sample Sequence:** (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

**First Semester Mathematics**
- Mathematics (MATH 1413 or higher) 4
- English (ENGL 1010 or higher) 3
- Structured & Obj-Oriented Problem-Solving (CSCS 1240) 3
- Introduction to Networks (CSNT1200) 4
- UNIX/Linux (CSCS 1730) 4

**Second Semester Mathematics**
- English (ENGL 1020) 3
- Fundamentals of Information Security (CSNS 1610) 4
- Wellness (Activity and/or Awareness) 1
- Routing and Switching Essentials (CSNT1500 or CRST1010 Computer Hardware) 4

**Third Semester**
- Principles of Physics (PHYS 1730) 4
- Database System (CSIT 2400) 3
- C/C++ Programming (CSCS1320) 3
- Introduction to Ethics (PHIL 2010) 3

**Fourth Semester**
- Principles of Physics II (PHYS1740) 4
- Fundamentals of Information Assurance (CSNS 2620) 3
- Humanities elective 3
- Liberal Arts and Sciences elective 3
- Social Science elective 3

Footnotes:
1 Math courses higher than MATH 1413 may be preferred by some transfer schools.
2 Students must choose from courses that are in the following different SUNY Gen Ed Knowledge and Skills areas: Social Science, American History, Western Civilization, Other World Civilizations, The Arts, and Foreign Languages. Advisor assistance is strongly encouraged.
3 or MATH1411 and MATH1412
4 If transferring to Alfred State
*Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and math courses. *Students in this program who plan to transfer to a SUNY college can meet 30 credits of the general education requirement.
* Since programs at transfer colleges vary greatly, it is essential that students meet early with their advisor in order to select appropriate electives.
* High school or equivalent preparation required: biology, chemistry or physics and four years of mathematics, including algebra, geometry or intermediate algebra, trigonometry, and pre-calculus. Students who don’t have this preparation will be able to get it here, but it may take longer to complete the program.
* Any student enrolling or currently enrolled in the program is required to inform the program coordinator of any felony convictions that occur while the student is enrolled or have occurred prior to enrollment.
Directed Studies

Associate in Applied Science Degree, Career program
Divisions of Humanities and Social Sciences, Professional Studies
Associate Dean: Byron Shaw
Associate Dean: Deborah Beall

This program is designed to allow the opportunity to pursue a degree for career enhancement or to accommodate the immediate needs of business and industry. Students must meet with an advisor and prepare a detailed educational plan to be presented to and approved by the associate deans before enrolling in the program.

Graduates will be able to develop a program to suit a unique career choice not met by any other program.

Although this program is not intended for transfer, students in this program who plan to transfer to a SUNY college can meet 7 of the 10 SUNY Knowledge and Skills areas and 30 SUNY General Education credits. For more information on SUNY General Education requirements, refer to the catalog index or see an advisor.

High school or equivalent preparation required.

<table>
<thead>
<tr>
<th>Program Requirements:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020.)*</td>
<td>6</td>
<td>Liberal Arts and Sciences electives</td>
</tr>
<tr>
<td>Mathematics (MATH 1110 or higher)*</td>
<td>3</td>
<td>Free electives</td>
</tr>
<tr>
<td>Laboratory Science elective</td>
<td>3</td>
<td>Wellness</td>
</tr>
<tr>
<td>Social Sciences electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Humanities elective</td>
<td>3</td>
<td>Total hours</td>
</tr>
</tbody>
</table>

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters. The sequence of courses may vary from this sample depending on the student's intended eventual major.)

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics (MATH 1110 or higher)</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Free electives</td>
<td>6</td>
</tr>
<tr>
<td>Wellness (Awareness/Instructional Component)</td>
<td>1</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td>Liberal Arts and Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Free electives</td>
<td>3</td>
</tr>
<tr>
<td>Wellness (Activity Component)</td>
<td>1</td>
</tr>
</tbody>
</table>

Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Science</td>
<td>3</td>
</tr>
<tr>
<td>Liberal Arts and Sciences electives</td>
<td>3</td>
</tr>
<tr>
<td>Free electives</td>
<td>9</td>
</tr>
</tbody>
</table>

Fourth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free electives</td>
<td>15</td>
</tr>
</tbody>
</table>

Footnotes:

* Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.
Electrical Technology – Electronics
Associate in Applied Science Degree, Career program
Division of STEM
Associate Dean: Bradley Cole
Department Chair: John Longwell

The Electrical Technology program prepares students to enter the rapidly expanding field of electronics. Their studies qualify them to work in the exciting fields of electronic design, computer repair, communications, systems control, and technical sales and service. This program stresses electronic analysis and design using digital and analog electronics, instrumentation, and programming. Laboratory experience is a part of each of the courses in this program.

Graduates will be able to:
• Design, construct, and analyze electronic circuits;
• Demonstrate the use of electrical and mechanical equipment and instrumentation;
• Demonstrate proficiency in the use of computer software for drawing, simulation, and programming;
• Produce proper documentation of experiments, projects, and programs.

For students who decide to go on for further education after the A.A.S. degree, many four-year colleges now offer bachelor degree programs in technology and technical education specifically designed for graduates in electrical technology. High school or equivalent preparation required: Two years of mathematics including algebra and either geometry or intermediate algebra. Students who don’t have this preparation will be able to get it here, but it may take longer to complete the program.

<table>
<thead>
<tr>
<th>Program Requirements:</th>
<th>6</th>
<th>Technical Concentration (ELEC 1010, 1500, 1510, 2000, 2010, 2020, 2030, 2070; MECH 1050; TECH 1030, 1080 and Technical Electives)**</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020 or 1030.)*</td>
<td>6</td>
<td>41-42</td>
</tr>
<tr>
<td>Mathematics (MATH 1230-1240 or higher)*</td>
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<td>41-42</td>
</tr>
<tr>
<td>Social Sciences electives</td>
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<td>41-42</td>
</tr>
<tr>
<td>Physics (PHYS 1010)</td>
<td>4</td>
<td>41-42</td>
</tr>
<tr>
<td>Social Sciences or Humanities</td>
<td>3</td>
<td>41-42</td>
</tr>
</tbody>
</table>

Students must have a good working knowledge of WORD (word processing) and EXCEL (spreadsheets and charts) for science and technology courses. If not already required in their program, students who lack these skills should still take TECH 1110 and TECH 1120 to make up the deficiency. Challenge exams for these courses are also available.

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

First Semester
- English (ENGL1010)
- Mathematics (MATH 1230 or higher)
- Manufacturing Methods (TECH 1030)
- Engineering Graphics (MECH 1050)
- Electricity (ELEC 1010)
- Manufacturing Methods Lab (TECH 1080)

Second Semester
- English (ENGL 1020)
- Mathematics (MATH 1240 or higher)
- Digital Electronics (ELEC 1510)
- Elementary Physics (PHYS 1010)
- Solid State Electronics (ELEC 1500)

Third Semester Social
- Sciences elective
- Linear Electronics (ELEC 2010)
- Electronic Construction (ELEC 2000)
- Technical Elective I**
- Microprocessors (ELEC 2030)

Fourth Semester
- Social Sciences or Humanities elective
- Industrial Electronics (ELEC 2020)
- Technical Elective II**
- Industrial Data Acquisition (ELEC 2070)

Footnotes:
*Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.

**Student chooses either MECH 2050 or GLSS 2010 for Technical Elective I, and either ELEC 2050 or GLSS 2020 for Technical Elective II.
Engineering Science
Associate in Science Degree, Transfer program
Division of STEM
Associate Dean: Bradley Cole
Department Chair: John Longwell

Engineering Science provides a foundation in engineering principles, physical sciences, mathematics, and social fields in preparation for making important contributions to engineering and society. The program provides university parallel coursework for the first two years of a bachelor’s degree in engineering. Graduates continue their education by transferring to a four-year institution where they specialize in traditional fields such as electrical, mechanical, chemical, civil, environmental, materials, aerospace, and biomedical engineering. Past graduates have successfully completed studies at Alfred University, Clarkson University, Cornell University, Rensselaer Polytechnic Institute, Rochester Institute of Technology, SUNY Buffalo, the Watson School of Engineering at SUNY Binghamton, and numerous others nationwide.

Corning Community College maintains membership in the State University of New York Two Year Engineering Science Association, a consortium of two-year and four-year ABET accredited institutions offering study in engineering.

Graduates will be able to:
• Demonstrate an understanding of engineering principles and concepts through graphic, oral, and written communication;
• Apply engineering principles and concepts in solution of problems and experiments;
• Perform selected tasks relative to laboratory experiments in the physical sciences;
• Interpret data according to physical fundamentals;
• Demonstrate computer literacy and programming proficiency;
• Use information from appropriate literature sources in completing objectives;
• Apply teamwork concepts in the solution of problems, experiments, or projects.

High school or equivalent preparation required: Four years of science including biology, chemistry and physics, and four years of mathematics, including algebra, geometry or intermediate algebra, trigonometry, and pre-calculus. Students who don’t have this preparation will be able to get it here, but it may take longer to complete the program.

<table>
<thead>
<tr>
<th>Program Requirements:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010-1020)*</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (MATH 1610-1620, 2610-2620)*</td>
<td>16</td>
</tr>
<tr>
<td>Social Sciences electives (ECON 2001 or 2002)</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences or Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td>Computer programming (ENGR 1050)</td>
<td>3</td>
</tr>
</tbody>
</table>

*Based on placement, students might be required to successfully complete preparatory course(s) before attempting further course or program requirements.

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL1010)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics (MATH 1610)</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry (CHEM 1510)</td>
<td>4</td>
</tr>
<tr>
<td>C for Engineers (ENGR 1050)</td>
<td>3</td>
</tr>
<tr>
<td>Engineering Orientation (ENGR 1010)</td>
<td>2</td>
</tr>
<tr>
<td>Third Semester</td>
<td>Fourth Semester</td>
</tr>
<tr>
<td>Mathematics (MATH 2610)</td>
<td>4</td>
</tr>
<tr>
<td>Physics (PHYS 2830)</td>
<td>4</td>
</tr>
<tr>
<td>Technical Concentration</td>
<td>7</td>
</tr>
<tr>
<td>Social Sciences (ECON 2001 recommended)</td>
<td>3</td>
</tr>
</tbody>
</table>

Footnotes:
1. Technical Concentration: Select from CHEM 2100-2020; ENGR 2110-2120, 2150, 2180. Courses should be chosen to conform to the program requirements of the college to which the student plans to transfer. If Chemical Engineering is the intended transfer major, select CHEM 2100-2020 and two of the ENGR courses. Otherwise, select the four ENGR courses.
Environmental Science
Associate in Science Degree, Transfer Program
Division of STEM
Associate Dean: Bradley Cole
Department Chair: David Pindel

The Environmental Science A.S. degree is designed to enable students to transfer to most baccalaureate institutions with standing as a junior. The program outcomes prepare students for “green” employment in industries that are targeting global climate change, management of natural resources, and protection of the environment. While completion of this degree alone prepares students for work as environmental technicians, continuation through transfer institutions qualifies the graduate for work as environmental engineers, educators, environmental field biologists, and other environmental scientists in both the public and private sector.

Graduates will demonstrate:

- A thorough understanding of the theoretical principles, processes, and relationships underlying the environmental sciences;
- An ability to apply this knowledge to a wide variety of practical situations;
- An understanding of the social, economic, political, and ethical issues related to the environmental sciences, perform relevant laboratory experiments and interpret data gathered from such experiments;
- The ability to critically analyze and formulate possible solutions to environmental issues.

Inherent in Corning Community College’s mission is preparing students for a life of service to their professions and their communities in a globally interdependent society. The environmental analysis community is a key player in directing important public policy objectives related to quality of life issues, economic development, and environmental responsibility.

<table>
<thead>
<tr>
<th>Program Requirements:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020)*</td>
<td>6</td>
<td>Environmental Ethics (PHIL 2200) 3</td>
</tr>
<tr>
<td>Mathematics (MATH 1310 or higher)*</td>
<td>6</td>
<td>Program Electives **</td>
</tr>
<tr>
<td>Social Science electives</td>
<td>6</td>
<td>BIOL 2010, 2050, 2060, 2080, GEOL 1510,</td>
</tr>
<tr>
<td>Laboratory Science (BIOL 1510-1520; CHEM 1510-1520)</td>
<td>16</td>
<td>PHYS 1730-1740, CHEM 2010-2020 7</td>
</tr>
<tr>
<td>Environmental Science (BIOL 1500)</td>
<td>4</td>
<td>Wellness Activity or Awareness 1</td>
</tr>
<tr>
<td>Ecology (BIOL 2040)</td>
<td>4</td>
<td>Free electives 6</td>
</tr>
<tr>
<td>Environmental Geology (GEOL 1530)</td>
<td>4</td>
<td>Total Hours 63</td>
</tr>
</tbody>
</table>

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

### First Semester
- English (ENGL 1010) 3
- General Chemistry I (CHEM 1510) 4
- General Biology I (BIOL 1510) 4
- Environmental Science (BIOL 1500) 4
- Wellness (Activity or Awareness Component) 1

### Second Semester
- English (ENGL 1020) 3
- General Chemistry II (CHEM 1520) 4
- General Biology II (BIOL 1520) 4
- Mathematics (MATH 1310 or higher) 3
- Social Science elective 3

### Third Semester
- Social Science 3
- Mathematics (MATH 1310 or higher) 3
- Ecology (BIOL 2040) 4
- Program electives 4

### Fourth Semester
- Environmental Ethics (PHIL 2200) 3
- Environmental Geology (GEOL 1530) 4
- Program electives 3
- Free electives 6

Footnotes:
- Program electives: Select courses from the following to total 10 credit hours: BIOL 2010, BIOL 2050, BIOL 2060, BIOL 2080, CHEM 2010, CHEM 2020, GEOL 1510, PHYS 1730, PHYS 1740. (Please note: all courses identified as program electives are not offered both fall and spring semesters.)
- Students in this program who plan to transfer to a SUNY college can meet 21 credits of the general education requirement.
- Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses. Successful completion of some or all developmental courses may also be required before students can enroll in the science classes pertinent to this program.
- Program electives option to be determined by desired transfer school program requirements.
Fine Arts and Design
Associate in Science Degree, Transfer program
Division of Humanities and Social Science
Associate Dean: Byron Shaw
Department Chair: Fred Herbst

This program is designed to enable students in both fine arts and commercial art to transfer to many baccalaureate institutions with standing as a junior. Due to the variety of requirements from transfer destinations, this program is meant to cover as many bases as possible. Its flexibility encourages students to explore a spectrum of art forms and styles without locking them into a particular discipline. Its general education requirements in mathematics, lab sciences, social sciences, and wellness will provide students the required elements of a liberal arts and sciences education. Its core courses—art history, design, drawing, and painting—are the elemental building blocks for further study in fields as varied as ceramics, digital art, or art education. A required portfolio preparation course will specifically acquaint students with the expectations of quality transfer institutions.

Graduates of this program will be able to:
- Demonstrate fundamental drawing concepts, including line, proportion, value, gesture, texture, and style.
- Be able to draw an architectural interior in correct linear perspective.
- Draw and paint realistic portraits and figure subjects in correct proportion, including self-portraits.
- Demonstrate proficient use of pen and ink, charcoal, conte crayon, ink wash, oil paint, and all graphite media.
- Demonstrate proficiency in manipulating the major elements of 2-D and 3-D design, including shape, scale, color theory, balance, symmetry, kinetics, texture, materials, and composition.
- Demonstrate a foundational knowledge of major historical styles of western art, from ancient Egypt through the present.
- Assemble a portfolio and resume for possible transfer or employment.
- Demonstrate a foundational knowledge in the liberal arts and sciences, to include Basic Communication, Humanities, Social Sciences, Natural Sciences, Mathematics, and Western Civilization.

Program Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020)*</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (MATH 1110 or higher)*</td>
<td>6</td>
</tr>
<tr>
<td>Core Requirements:</td>
<td></td>
</tr>
<tr>
<td>ARTS 1310, 1320 (Art History I &amp; II)</td>
<td>6</td>
</tr>
<tr>
<td>ARTS 1030, 2030 (Drawing I &amp; II)</td>
<td>6</td>
</tr>
<tr>
<td>ARTS 1410 (2-D Design)</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 1420 (3-D Design)</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 2110 (Painting I)</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 2999 (Portfolio Preparation)</td>
<td>1</td>
</tr>
<tr>
<td>Total hours</td>
<td>63</td>
</tr>
</tbody>
</table>

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Composition (ENGL 1010)</td>
<td>3</td>
</tr>
<tr>
<td>2-D Design (ARTS 1410)</td>
<td>3</td>
</tr>
<tr>
<td>Drawing I (ARTS 1030)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics elective</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Total hours</td>
<td>13</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1020)</td>
<td>3</td>
</tr>
<tr>
<td>Drawing II (ARTS 2030)</td>
<td>3</td>
</tr>
<tr>
<td>3-D Design (ARTS 1420)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics elective</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Total hours</td>
<td>13</td>
</tr>
</tbody>
</table>

Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>History I (ARTS 1310)</td>
<td>3</td>
</tr>
<tr>
<td>Painting I (ARTS 2110)</td>
<td>3</td>
</tr>
<tr>
<td>Portfolio Preparation (ARTS 2999)</td>
<td>3</td>
</tr>
<tr>
<td>Art or Media elective</td>
<td>3</td>
</tr>
<tr>
<td>Laboratory Science elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td>Total hours</td>
<td>13</td>
</tr>
</tbody>
</table>

Fourth Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>History II (ARTS 1320)</td>
<td>3</td>
</tr>
<tr>
<td>Laboratory Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art or Media elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td>Free elective</td>
<td>3</td>
</tr>
<tr>
<td>Total hours</td>
<td>13</td>
</tr>
</tbody>
</table>

Footnotes:
* Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.
* Suggested HUMA electives: PHIL 2360 (Philosophy of the Arts), foreign language, or theatre.
* Suggested ARTS electives: ARTS 1210, 2210 (Ceramics I & II), ARTS 1220 (Basic Black & White Photography), ARTS 1400 (Intro to Digital Art), ARTS 1440 (Intro to Graphic Design), ARTS 1450 (Digital Photography), ARTS 2120 (Painting II), ARTS 2220 (Advanced Photographic Communications), ARTS 2540 (Graphic Design II), ARTS 2550 (Web Design), ARTS 2620 (Ceramic Sculpture), ARTS 2990 (Independent Studio Project)
* Students in this program who plan to transfer to a SUNY college can meet 7 of the 10 SUNY Knowledge and Skills areas and 30 SUNY General Education credits. For more information on SUNY General Education requirements, refer to the catalog index or see an adviser.
Information Technology

Associate in Applied Science Degree, Career program

Division of STEM

Associate Dean: Bradley Cole
Coordinator: DJ Dates (Computer and Network Technology)
Coordinator: Matt Haas (Systems Administration)

The career program in Information Technology is designed to offer students several paths of study leading to an A.A.S. degree in their chosen field. The program is designed to be flexible and diverse so as to offer students the opportunity to choose a career path that best suits their interests and provides them with marketable skills for entering the global job market, or for continuing their education. This program offers specialization in network technology and system administration. Avenues for various career paths could include positions at national supercomputing and science laboratories, continuing on in the undergraduate and eventually graduate programs at other institutions, or positions in the corporate world (banks, financial institutions, etc.). The program also provides educational enhancement opportunities to local employers who want to advance the education of their employees.

Graduates will be able to:
• Communicate effectively written and oral communication skills;
• Work effectively in a team environment both as a member and as a leader;
• Utilize analytical problem-solving techniques and critical thinking skills;
• Apply knowledge needed to successfully work with the various computer, networking, system, and application technologies as covered in the various program options.

Program Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020)*</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (MATH 1230 or higher)*</td>
<td>3-6</td>
</tr>
<tr>
<td>Social Sciences electives</td>
<td>3</td>
</tr>
<tr>
<td>Social Science or Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td>Laboratory Science elective</td>
<td>4</td>
</tr>
<tr>
<td>Concentration requirements (see sample sequence)</td>
<td>38-42</td>
</tr>
<tr>
<td>Program electives</td>
<td>3</td>
</tr>
<tr>
<td>Wellness (Awareness or Activity)</td>
<td>0-1</td>
</tr>
<tr>
<td>Total hours</td>
<td>64</td>
</tr>
</tbody>
</table>

Information Technology: Computer and Network Technology

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

First Semester                             Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition I (ENGL 1010)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics (MATH 1230)</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Networks (CSNT 1200)</td>
<td>4</td>
</tr>
<tr>
<td>Computer Hardware (CRST 1010)</td>
<td>4</td>
</tr>
<tr>
<td>Social Sciences elective²</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition II (ENGL 1020)</td>
<td>3</td>
</tr>
<tr>
<td>Program elective¹</td>
<td>3</td>
</tr>
<tr>
<td>Operating Systems (CRST 1030)</td>
<td>4</td>
</tr>
<tr>
<td>Structured &amp; Object-Oriented</td>
<td>3</td>
</tr>
<tr>
<td>Problem Solving (CSCS 1240)</td>
<td>3</td>
</tr>
<tr>
<td>Routing and Switching Essentials (CSNT 1500)</td>
<td>4</td>
</tr>
</tbody>
</table>

Third Semester                             Fourth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Systems Configuration &amp; Maintenance (CRST 2040)</td>
<td>4</td>
</tr>
<tr>
<td>Laboratory Science elective¹</td>
<td>4</td>
</tr>
<tr>
<td>Network Software (CSNT 2200)</td>
<td>4</td>
</tr>
<tr>
<td>Scaling Networks (CSNT 2400)</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecting Networks (CSNT 2800)</td>
<td>3</td>
</tr>
<tr>
<td>Information Technology Practicum (CRST 2050)</td>
<td>4</td>
</tr>
<tr>
<td>Fundamentals of Information Security (CSNS 1610)</td>
<td>4</td>
</tr>
<tr>
<td>Social Science or Humanities Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Footnotes:
1Select PHYS 1010 or higher;
2General Psychology recommended;
3Select from CRST, CSCS, CSIT1320, 2044 or higher, CSNS, CRST, and CWSW courses with advisor’s approval. CSCS 1730 recommended.
4Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.
5Adviser assistance in selection of courses is highly recommended;
### Sample Sequence:
(Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition I (ENGL 1010)</td>
<td>English Composition II (ENGL 1020)</td>
</tr>
<tr>
<td>Mathematics (MATH 1230)</td>
<td>Mathematics (MATH 1240)</td>
</tr>
<tr>
<td>Introduction to Networks (CSNT 1200)</td>
<td>Social Sciences or Humanities elective</td>
</tr>
<tr>
<td>UNIX/Linux Fundamentals (CSCS 1730)</td>
<td>C/C++ Programming (CSCS 1320)</td>
</tr>
<tr>
<td>Structured &amp; Object-Oriented Problem Solving (CSCS 1240)</td>
<td>HPC Fundamentals (CSIT 1320)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Structures (CSCS 2320)</td>
<td>Information Technology Practicum (CRST2050)</td>
</tr>
<tr>
<td>Laboratory Science elective²</td>
<td>Systems Programming (CSCS 2730)</td>
</tr>
<tr>
<td>Database Systems (CSIT 2400)</td>
<td>Social Science elective</td>
</tr>
<tr>
<td>Program elective¹</td>
<td>Computer Organization (CSCS 2650)</td>
</tr>
<tr>
<td>Discrete Structures (CSCS 2330)</td>
<td>Wellness (Activity or Awareness)</td>
</tr>
</tbody>
</table>

### Three Year Online Sequence for Information Technology – System Administration:
(The third through sixth semesters can be taken in any order, but some courses are offered only in the semesters specified.)

<table>
<thead>
<tr>
<th>First Semester (Fall)</th>
<th>Second Semester (Spring)</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition I (ENGL 1010)</td>
<td>English Composition II (ENGL 1020)</td>
</tr>
<tr>
<td>UNIX/Linux Fundamentals (CSCS 1730)</td>
<td>C/C++ Programming (CSCS 1320)</td>
</tr>
<tr>
<td>Structured &amp; Object-Oriented Problem Solving (CSCS 1240)</td>
<td>HPC Fundamentals (CSIT 1320)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester (Fall, even numbered years)</th>
<th>Fourth Semester (Spring, odd numbered years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Structures (CSCS 2320)</td>
<td>Systems Programming (CSCS 2730)</td>
</tr>
<tr>
<td>Database Systems (CSIT 2400)</td>
<td>Social Science elective</td>
</tr>
<tr>
<td>Mathematics (MATH 1230)</td>
<td>Computer Organization (CSCS 2650)</td>
</tr>
<tr>
<td>Wellness (Activity or Awareness)</td>
<td>Mathematics (MATH 1240)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fifth Semester (Fall, odd numbered years)</th>
<th>Sixth Semester (Spring, even numbered years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Networks (CSNT 1200)</td>
<td>Information Technology Practicum (CRST2050)</td>
</tr>
<tr>
<td>Laboratory Science elective²</td>
<td>Program elective¹(CSNT2700 Recommended)</td>
</tr>
<tr>
<td>Discrete Structures (CSCS 2330)</td>
<td>Social Science or Humanities elective</td>
</tr>
</tbody>
</table>

¹Select from CSIT2240 or higher, ELEC 1010 or ELEC 1510, CRST, CSCS, CSNS, CSNT, and CSWT with advisor’s approval.
²Select PHYS 1010 or higher
Liberal Arts and Sciences: Childhood Education (Teacher Education Transfer)
Associate in Science Degree, Transfer Program
Division of Professional Studies
Associate Dean: Deborah Beall
Department Chair: Julie Dick

This program is designed for students planning to transfer to a four-year institution, other than Elmira College, to pursue a degree in Education. Graduates will:

1. Have the skills and knowledge necessary to understand the aims of public education in our society, current trends in education, and the general roles and responsibilities of teachers
2. This knowledge will prepare them to pursue an education program at a transfer institution
3. Demonstrate competency in understanding the concepts, principles, and practices of several areas of the Liberal Arts and Sciences, with special focus on preparing them to take the first of three certification exams

High school or equivalent preparation is required to enroll in this program. Students must maintain a 2.7 or higher GPA for successful recommendation and admission to a certification program at a four-year institution following graduation from CCC. Given the diversity of requirements at individual transfer colleges, it is essential that students in this program meet with a faculty adviser to determine appropriate courses.

**Program Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 - 1020)</td>
<td>6</td>
</tr>
<tr>
<td>Foreign Language (SIGN, SPAN or other)</td>
<td>6</td>
</tr>
<tr>
<td>Laboratory Science (SCIN1110 and 1120)</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (MATH 1130 or higher)</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences (HIST1110 or 1120 &amp; PSYC1101)</td>
<td>6</td>
</tr>
<tr>
<td>Concentration electives from one area below</td>
<td>9</td>
</tr>
</tbody>
</table>

**General Education Requirement:** The Arts

**Wellness**

The total hours required to complete the program are 62.

A. English: select English.
B. Social Studies: select from courses in history, anthropology, economics, geography, and government.
C. Mathematics: select from math courses numbered 1130 and higher.
D. Guided Education: Select from a list of approved courses based on transfer school. Consult with your advisor for direction on upper level requirements. Students transferring to Alfred University must take ENGL2030 Children’s Literature, PSYC2208 Adolescent Psychology, and a Global Awareness general education course (consult with the approved Gen Ed list from Alfred University). Students transferring to Mansfield must take ENGL2030 Children’s Literature, SPCH1080 Public Speaking, and PSYC2212 Education Psychology.

**Sample Sequence:** (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition I (ENGL1010)</td>
<td>Composition II (ENGL1020)</td>
</tr>
<tr>
<td>Mathematics (recommend MATH1130 or higher)</td>
<td>Mathematics (recommend MATH1140)</td>
</tr>
<tr>
<td>Foundations of Education (EDUC1010)</td>
<td>Child Psychology (PSYC2207 or 2208)*</td>
</tr>
<tr>
<td>General Psychology (PSYC1101)</td>
<td>Teaching in the Diverse Classroom (EDUC2040)</td>
</tr>
<tr>
<td>Foreign Language I (SIGN, SPAN, or other)</td>
<td>Foreign Language II (SIGN, SPAN or other)*</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Third Semester</td>
<td>Fourth Semester</td>
</tr>
<tr>
<td>Laboratory Science (SCIN1110)</td>
<td>Laboratory Science (recommend SCIN1120)</td>
</tr>
<tr>
<td>American History (HIST1110 or 1120)</td>
<td>Schools &amp; Society (EDUC2050 or ECED1150)</td>
</tr>
<tr>
<td>Special Ed/Inclusive Class (EDUC 1560)*</td>
<td>Concentration electives</td>
</tr>
<tr>
<td>Concentration elective</td>
<td>Arts elective*</td>
</tr>
<tr>
<td>Wellness (Awareness or Activity)</td>
<td>Wellness (Awareness or Activity)*</td>
</tr>
<tr>
<td>Guided General Elective**</td>
<td></td>
</tr>
</tbody>
</table>

**Footnotes:**

*All education students are required to see an advisor.

*Students transferring to a New York State institution are advised to take a studio art course. Students transferring out-of-state may be required to take a theory course. Consult with your advisor and/or transfer school for guidance.

*EDUC1010, 1960, EDUC2040 may not transfer to a SUNY transfer institution; contact an Educational Planner for information regarding transferability to the institutions in which you are interested.

1 Students transferring to Alfred University must take two Activity courses.
2 Foreign language must be 2 semesters of the same language.
3 Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.
4 Consult an advisor for specific course to meet the Guided General Elective.
Liberal Arts and Sciences: Education/Childhood Education
A jointly registered program of Corning Community College and Elmira College

Corning Community College: Associate in Science Degree

Transfer program Elmira College: Bachelor of Science or Bachelor of Arts Degree
Division of Professional Studies
Associate Dean: Deborah Beall
Department Chair: Julie Dick

This program is designed for students planning to transfer to Elmira College as Childhood Education majors. Qualified students who enter this program at CCC are simultaneously accepted into Elmira College. At Elmira College, students may choose to pursue either a Bachelor of Science or Bachelor of Arts degree. During their final semester at CCC, students will meet with Elmira College advisors who will register them for their next semester. Students must maintain a 2.7 or higher Grade Point Average for successful transfer.

Graduates will:
1. Have the skills and knowledge necessary to transfer to the Education Certification program at Elmira College only
2. Have the skills and knowledge necessary to understand the aims of public education in our society, current trends in education, and the general roles and responsibilities of teachers
3. Demonstrate their competency in understanding the concepts, principles, and practices of several areas of the Liberal Arts and Sciences, with special focus on preparing them to take the first of three certification exams.

All teachers in New York State must successfully complete one year of language at the college level. They must also complete their education program and pass all state certification exams before receiving their initial certificate.

It is highly recommended that students consult with their advisor each semester.

### Program Requirements at Corning Community College:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010-1020)*</td>
<td>6</td>
</tr>
<tr>
<td>Foreign Language (Spanish or Sign strongly recommended)</td>
<td>8</td>
</tr>
<tr>
<td>Laboratory Science electives</td>
<td></td>
</tr>
<tr>
<td>Mathematics (MATH 1130-1140 or higher)*</td>
<td>6</td>
</tr>
<tr>
<td>Concentration electives from one area below:</td>
<td>15</td>
</tr>
<tr>
<td>At least 9 hours must be upper-level courses.</td>
<td></td>
</tr>
<tr>
<td>A. Communications/Humanities: Courses in art, foreign languages, humanities, media communications, music, philosophy, speech, theatre, &amp; 2000-level English.</td>
<td></td>
</tr>
<tr>
<td>B. Social Sciences: Courses in anthropology, economics, geography, government, history, psychology, and sociology.</td>
<td></td>
</tr>
<tr>
<td>C. Mathematics: Courses numbered higher than 1215 and up to 4 hours from chemistry or physics courses numbered 1500 or higher</td>
<td></td>
</tr>
<tr>
<td>Program requirements (EDUC 1010, 1560, 1960, 2040; PSYC 1101; PSYC 2207 or 2208; HIST 1010, 1020, 1110 or 1120)</td>
<td>21</td>
</tr>
<tr>
<td>Free elective</td>
<td>3</td>
</tr>
<tr>
<td>Wellness</td>
<td>2</td>
</tr>
<tr>
<td>Total hours</td>
<td>64</td>
</tr>
</tbody>
</table>

### Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics (MATH 1130 or higher)</td>
<td>3</td>
</tr>
<tr>
<td>Foundations of Education (EDUC 1010)</td>
<td>3</td>
</tr>
<tr>
<td>General Psychology I (PSYC 1101)</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language elective</td>
<td>4</td>
</tr>
<tr>
<td>Wellness (Awareness/Instructional Component)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1020)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics (MATH 1140 or higher)</td>
<td>3</td>
</tr>
<tr>
<td>Child or Adolescent Psychology (PSYC 2207 or 2208)</td>
<td>3</td>
</tr>
<tr>
<td>Teaching in the Diverse Classroom (EDUC 2040)</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language elective</td>
<td>4</td>
</tr>
</tbody>
</table>

**Third Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science elective</td>
<td>3</td>
</tr>
<tr>
<td>Concentration electives</td>
<td>6</td>
</tr>
<tr>
<td>Special Ed &amp; Inclusive Classroom (EDUC 1560)</td>
<td>3</td>
</tr>
<tr>
<td>History (HIST 1010, 1020, 1110, or 1120)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Fourth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Science elective</td>
<td>3</td>
</tr>
<tr>
<td>Concentration electives</td>
<td>9</td>
</tr>
<tr>
<td>Fieldwork &amp; Seminar in Education (EDUC 1960)</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Course</td>
<td>3</td>
</tr>
<tr>
<td>Wellness (Activity Component)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Footnotes:**

1In the Communications/Humanities and Social Sciences areas, upper-level courses have a 2000 number; they are noted as upper-level courses in the description. Mathematics upper-level courses are numbered 1215 or higher. Science upper-level courses are numbered 1500 or higher.

*Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.
Liberal Arts and Sciences: Humanities and Social Sciences

Associate in Arts Degree, Transfer program

Divisions of Humanities and Social Sciences
Associate Dean: Byron Shaw

This program provides the first two years of a traditional college education leading toward such professions as law, teaching at all levels through college, journalism, psychology, international affairs, translation, political science, and many more that require a strong academic background in such disciplines as economics, English, government, history, modern and classical languages, music, philosophy, psychology, sociology, theater, and others. By following a rigorous liberal arts and sciences curriculum, graduates will develop capabilities in academic research and writing; an ability to apply scientific method and critical thinking skills to validate their own ideas and inquiries; sufficient math skills to deal with complex problems; and an awareness and appreciation of living in a culturally, racially, and ethnically diverse society. The humanities, social sciences, and liberal arts and sciences electives allow students to focus their curriculum toward a specific goal or to explore a variety of disciplines. The courses accommodate a wide range of career choices. For curricular guidance to meet transfer and career goals, consult an academic advisor or educational planner. Additionally, you can refer to SUNY Transfer Paths at www.SUNY.edu. In a world where technology is constantly changing, students must be ready for a tomorrow where jobs change rapidly or disappear. This program provides a solid educational foundation by encouraging students to be knowledgeable about the past, but prepared for the future.

Graduates will have:

• Self-Direction (To Work on One’s) – The ability to independently define, plan, and complete a project in conformance with assigned criteria, locating, evaluating, integrating, and correctly documenting any necessary primary or secondary source material;
• Analytical skills (To Think) – The ability to evaluate the quality of a claim, concept or process by careful consideration of the appropriateness, relevance, and/or truth of the supporting evidence;
• Understanding of the World (To Know) – The ability to demonstrate a foundation knowledge of the Natural World, The Physical World, The Social/Cultural World, The Historical World and The Contemporary World;
• Problem Solving (To Discover) – The ability to determine the best of many possible solutions to problems, whether numerical, symbolic, ethical, linguistic, or social;
• Expressivity (To Communicate) – The ability to clearly present information through writing, speech, visual presentation, or performance;
• Understanding of Human Condition and Human Behavior (To Understand) – The ability to demonstrate a basic understanding of motive and resultant human behaviors and activities;
• Creativity (To Innovate) – The ability to devise and express original insights and/or distinctive relationships among concepts;
• World Citizenship (To Appreciate) – The ability to demonstrate fundamental appreciation of cultures other than one’s own.

Program Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010-1020)</td>
<td>6</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences electives</td>
<td>6</td>
</tr>
<tr>
<td>Laboratory Science electives</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (MATH 1110 or higher)*</td>
<td>3</td>
</tr>
<tr>
<td>Humanities electives</td>
<td>3</td>
</tr>
<tr>
<td>Liberal Arts and Sciences lower-level electives</td>
<td>15</td>
</tr>
<tr>
<td>Liberal Arts and Sciences upper-level electives</td>
<td>9</td>
</tr>
<tr>
<td>Free electives</td>
<td>6</td>
</tr>
<tr>
<td>Wellness</td>
<td>2</td>
</tr>
<tr>
<td>Total hours</td>
<td>62</td>
</tr>
</tbody>
</table>

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters. Students who are decided about an academic major should see an advisor or educational planner about the choice of courses that are appropriate for an established transfer path. The following is the default sequence for students who are undecided about an academic major or whose transfer goals are not accompanied by an established transfer path.)

First Semester

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010)</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics (MATH 1110 or higher)</td>
<td>3</td>
</tr>
<tr>
<td>Laboratory Science elective</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1020)</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Laboratory Science elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

Third Semester

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liberal Arts and Sciences electives (lower level)</td>
<td>9</td>
</tr>
<tr>
<td>Liberal Arts and Sciences electives (upper level)</td>
<td>3</td>
</tr>
<tr>
<td>Free elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Fourth Semester

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liberal Arts and Sciences electives (lower level)</td>
<td>6</td>
</tr>
<tr>
<td>Liberal Arts and Sciences electives (upper level)</td>
<td>6</td>
</tr>
<tr>
<td>Free elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Footnotes:
1 Based on placement, students might have to take developmental and/or prerequisite courses before taking the required English or Mathematics courses.
2 The level to be determined by academic preparation or background experience, with six credits in the same language.
3 When choosing electives, students should be aware of SUNY’s requirement to satisfy seven out of ten General Education areas and have at least 30 General Education credits. See the course catalog for information.
4 Any combination of activity and/or awareness
5 In the humanities and social sciences, upper-level courses carry a designation of 2000 or above, and they are noted as upper-level courses in the course descriptions. Science and mathematics upper-level courses are those mathematics courses numbered 3110 or higher and science courses are numbered 1500 or higher.
Liberal Arts and Sciences: Humanities and Social Sciences
Associate in Science Degree, Transfer program
Divisions of Humanities and Social Sciences
Associate Dean: Byron Shaw

This program is highly transferable and provides flexibility and exploration in a wide variety of studies since it contains many free electives. The training in disciplines under the general category of liberal arts and sciences is also excellent preparation for many traditional careers, including medicine, dentistry, law, teaching, business, international studies, mass media, mass communications, health, physical education, and recreation. Students can choose to concentrate in an area that matches their interests, or they can develop a curriculum to suit a unique academic goal not met by any other program. By following a rigorous liberal arts and sciences curriculum, graduates will have developed capabilities in academic research and writing; an ability to apply scientific method and critical thinking skills to validate their own ideas and inquiries; sufficient math skills to deal with complex problems; an awareness and appreciation of living in a culturally, racially, and ethnically diverse society.

Graduates will have:
• Self-Direction (To Work on One’s Own) – The ability to independently define, plan, and complete a project in conformance with assigned criteria, locating, evaluating, integrating, and correctly documenting any necessary primary or secondary source material;
• Analytical skills (To Think) – The ability to evaluate the quality of a claim, concept or process by careful consideration of the appropriateness, relevance, and/or truth of the supporting evidence;
• Understanding of the World (To Know) – The ability to demonstrate a foundation knowledge of the Natural World, The Physical World, The Social/Cultural World, The Historical World and The Contemporary World;
• Problem Solving (To Discover) – The ability to determine the best of many possible solutions to problems, whether numerical, symbolic, ethical, linguistic, or social;
• Expressivity (To Communicate) – The ability to clearly present information through writing, speech, visual presentation, or performance;
• Understanding of Human Condition and Human Behavior (To Understand) – The ability to demonstrate a basic understanding of motive and resultant human behaviors and activities;
• Creativity (To Innovate) – The ability to devise and express original insights and/or distinctive relationships among concepts;
• World Citizenship (To Appreciate) – The ability to demonstrate fundamental appreciation of cultures other than one’s own.

Program Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010-1020)*</td>
<td>6</td>
</tr>
<tr>
<td>Humanities electives Social</td>
<td>6</td>
</tr>
<tr>
<td>Sciences electives</td>
<td>6</td>
</tr>
<tr>
<td>Laboratory Science electives</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (MATH 1110 or higher)*</td>
<td>6</td>
</tr>
<tr>
<td>Concentration electives from at least one area below</td>
<td>15</td>
</tr>
<tr>
<td>At least 9 hours must be upper-level courses.¹</td>
<td></td>
</tr>
</tbody>
</table>

A. Communications/Humanities: Select from courses in art foreign languages, humanities, media communications, music, philosophy, speech, theatre and 2000-level English.

B. Social Sciences: Select from courses in anthropology, economics, geography, government, history, psychology, and sociology.

C. Individualized Studies: Select from liberal arts and sciences courses. (Selection of this concentration requires approval by associate deans of instruction for the program in collaboration with the academic advisor.)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free Electives</td>
<td>15</td>
</tr>
<tr>
<td>Wellness</td>
<td>2</td>
</tr>
<tr>
<td>Total Hours:</td>
<td>62</td>
</tr>
</tbody>
</table>

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters. The sequence of courses may vary from this sample depending on the student’s intended eventual major.)

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010)</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td>Free elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL1020)</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td>Free elective</td>
<td>3</td>
</tr>
<tr>
<td>Wellness (Activity Component)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Third Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Science elective</td>
<td>3</td>
</tr>
<tr>
<td>Concentration electives¹</td>
<td>6</td>
</tr>
<tr>
<td>Free electives</td>
<td>6</td>
</tr>
<tr>
<td>Wellness (Activity Component)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Fourth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Science elective</td>
<td>3</td>
</tr>
<tr>
<td>Concentration electives¹</td>
<td>9</td>
</tr>
<tr>
<td>Free electives</td>
<td>3</td>
</tr>
</tbody>
</table>

Footnotes:

¹In the Communications/Humanities and Social Sciences areas, most upper-level courses carry a 2000 designation; they are noted as upper-level courses in the course description. Sciences & Mathematics upper-level courses are those math courses numbered 1310 or higher and science courses numbered 1500 or higher.

*Students in this program who plan to transfer to a SUNY college can meet 21 credits of the general education requirement.

*Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.
**Liberal Arts and Sciences: Mathematics and Science**

**Associate in Science Degree, Transfer program**

Division of STEM  
Associate Dean: Bradley Cole  
Department Chair Mathematics: Raymond LaBounty  
Department Chair Sciences: David Pindel

This program is recommended for students interested in the mathematics/sciences area of liberal arts and sciences. Students who choose this program are typically interested in transferring to major in mathematics or the natural or physical sciences, or are those who have interest in careers such as pharmacy, medicine, physical therapy, veterinary medicine, or mathematics or science education. It involves a more rigorous and concentrated level of mathematics and science than the other liberal arts programs, but still allows approximately 21 hours of electives. In all cases, students should look closely at the mathematics and science course descriptions to ensure that this program matches their abilities and career choice. Depending upon their long-range plans, they might also take a foreign language as an elective.

Graduates will demonstrate:

- **Self-Direction (To Work on One’s Own)** – The ability to independently define, plan, and complete a project in conformance with assigned criteria, locating, evaluating, integrating, and correctly documenting any necessary primary or secondary source material;
- **Analytical skills (To Think)** – The ability to evaluate the quality of a claim, concept or process by careful consideration of the appropriateness, relevance, and/or truth of the supporting evidence;
- **Understanding of the World (To Know)** – The ability to demonstrate a foundation knowledge of the Natural World, The Physical World, The Social/Cultural World, The Historical World and The Contemporary World;
- **Problem Solving (To Discover)** – The ability to determine the best of many possible solutions to problems, whether numerical, symbolic, ethical, linguistic, or social
- **Expressivity (To Communicate)** – The ability to clearly present information through writing, speech, visual presentation, or performance;
- **Understanding of Human Condition and Human Behavior (To Understand)** – The ability to demonstrate a basic understanding of motive and resultant human behaviors and activities;
- **Creativity (To Innovate)** – The ability to devise and express original insights and/or distinctive relationships among concepts;
- **World Citizenship (To Appreciate)** – The ability to demonstrate fundamental appreciation of cultures other than one’s own.

High school or equivalent preparation required: Two years of science and three years of mathematics, including algebra, geometry, intermediate algebra, and trigonometry. Students who don’t have this preparation will be able to get it here, but it may take longer to complete the program.

<table>
<thead>
<tr>
<th>Program Requirements:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010-1020)*</td>
<td>6</td>
<td>Mathematics and/or Science Concentration²,³</td>
</tr>
<tr>
<td>Mathematics*</td>
<td>6</td>
<td>Free electives⁴,⁵</td>
</tr>
<tr>
<td>Social Science electives</td>
<td>3</td>
<td>Wellness</td>
</tr>
<tr>
<td>Social Science or Humanities elective</td>
<td>3</td>
<td>Total hours</td>
</tr>
<tr>
<td>Laboratory Science sequence¹</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

**Sample Sequence:** (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters. The sequence of courses may vary from this sample depending on the student’s intended eventual major.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010)</td>
<td>3</td>
</tr>
<tr>
<td>Laboratory Science¹</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics²</td>
<td>3</td>
</tr>
<tr>
<td>Free electives⁴</td>
<td>6</td>
</tr>
<tr>
<td>Wellness (Awareness/Instructional Component)</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Science/Mathematics²,³</td>
<td>6</td>
</tr>
<tr>
<td>Free electives</td>
<td>6</td>
</tr>
<tr>
<td>Wellness (Activity Component)</td>
<td>1</td>
</tr>
</tbody>
</table>
**Math Focus Sample Sequence:** (This sequence is a more specific guide for those who intend to transfer as a mathematics major).

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010)</td>
<td>English (ENGL 1020)</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics (MATH1610)</td>
<td>Mathematics (MATH 1620)</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Social Science (or Laboratory Science)</td>
<td>Laboratory Science</td>
</tr>
<tr>
<td>3(4)</td>
<td>4</td>
</tr>
<tr>
<td>Computer Elective</td>
<td>Social Science elective</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Free Elective</td>
<td>Wellness Awareness (HLTH or WELL)</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration (MATH 2610)</td>
<td>(MATH 2560)</td>
</tr>
<tr>
<td>2, 3</td>
<td>2, 3</td>
</tr>
<tr>
<td>Concentration (MATH 2350 or 2410)</td>
<td>Free elective (MATH 2350 or 2620)</td>
</tr>
<tr>
<td>3</td>
<td>3(4)</td>
</tr>
<tr>
<td>Laboratory Science (or Social Science)</td>
<td>Free elective</td>
</tr>
<tr>
<td>4(3)</td>
<td>4</td>
</tr>
<tr>
<td>Free elective</td>
<td>Free elective</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Wellness Activity (PFIT or RECC)</td>
<td>Free elective</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

Footnotes:
1. Science courses must be selected from those that have a two-semester sequence and are numbered 1500 or higher. In addition, any two courses from GEOL 1510, 1520, and 1530 can count as a sequence.
2. Mathematics courses must be selected from courses numbered 1310 or higher. Students planning to transfer to a mathematics program at a four-year institution should select 1610-1620 to meet the mathematics requirement. To meet the concentration requirement, they should choose MATH 2610, and two courses from MATH 2330, 2410, 2560, 2620.
3. Select from science courses numbered 1500 or higher, math courses numbered 1310 or higher, and up to 3 credits in a computer programming language from the following list: CSCS 1320, CSCS 2420, CSST 1600, ENGR 1050, ELEC 2070 or TECH 1060.
4. Students planning to transfer to a mathematics or physics program at a four-year institution are recommended to take a computer programming language.
5. Foreign language recommended.
6. Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses. Students in this program who plan to transfer to a SUNY college can meet 7 of the 10 SUNY Knowledge and Skills areas and 30 SUNY General Education credits. For more information on SUNY General Education requirements, refer to the catalog index or see an advisor.
Machine Tool Technology
Associate in Applied Science Degree, Career program
Division of STEM
Associate Dean: Bradley Cole
Department Chair: John Longwell

Students in the Machine Tool Technology program study that portion of the manufacturing arena that actually produces the parts that go into the products sold throughout the world. Machinists set up and operate a vast variety of machine tools from basic lathes to advanced computer numerically controlled (CNC) machining centers. In today’s highly automated, high precision environment, the machinist needs a comprehensive knowledge of mathematics, precision measurement, CNC programming, and communication skills. Machinists must understand the working properties of metals such as steel, cast iron, aluminum and the effect heat treating has on their properties. They must be able to read complicated blueprints, translating these images into machined objects.

Graduates will be able to:

- Write and edit programs;
- Run parts on a CNC machining center;
- Use basic machining equipment and tools;
- Calculate and identify proper tool geometry, feeds, speeds, screw threads, and tapers to machine parts of various materials;
- Design simple jigs and fixtures;
- Read and inspect parts made to drawing specifications;
- Draw parts of various types and process them with MasterCam software.

In today’s environment, the machinist is an integral part of a manufacturing team which analyzes processes, estimates costs, schedules production, and programs automated machines which are factors necessary to ensure a continuous refinement and improvement of the manufacturing process. With this involvement comes the knowledge and pride of having an immediate impact on, and control over, quality. Quality and productivity are critical factors in today’s global economy. Some required classes are held at off-site locations evenings and weekends. Students must provide their own transportation.

<table>
<thead>
<tr>
<th>Program Requirements:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 &amp; 1020)*</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (MATH 1230, 1240 or 1310 or higher)*</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences electives</td>
<td>3</td>
</tr>
<tr>
<td>Physics (PHYS 1010)</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences or Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Technical Concentration (MACH 1040, 1540, 2510, 2380, 2400, 2410; MECH 1050, 1560, 1570;)</td>
<td>39</td>
</tr>
<tr>
<td>TECH 1030, 1110(i), 1120(i)</td>
<td></td>
</tr>
<tr>
<td>Machine Tool Co-op (MACH 2350)</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>64</td>
</tr>
</tbody>
</table>

Students must have good working knowledge of WORD (word processing) and EXCEL (spreadsheets and charts) for science and technology courses. If not already required in their program, students who lack these skills should still take TECH 1110 and TECH 1120 to make up the deficiency. Challenge exams for these courses are also available.

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

**First Semester**
- English (ENGL 1010) 3
- Mathematics (MATH 1230 or higher) 3
- Precision Machining I (MACH 1040) 5
- Engineering Graphics I (MECH 1050) 3
- Technical Word Processing and Research (TECH 1110)** 1
- Spreadsheet Applications in Technology (TECH 1120)** 1

**Second Semester**
- English (ENGL 1020) 3
- Mathematics (MATH 1240 or higher) 3
- Precision Machining II (MACH 1540) 5
- CNC Programming (MECH 1560) 3
- Dimensional Metrology (MECH 1570) 3
- **Summer: Machine Tool Co-op (MACH 2350) 3**

**Third Semester Manufacturing**
- Methods (TECH 1030) 3
- CNC Machining (MACH 2400) 5
- MasterCam I (MACH 2380) 3
- CNC Lathe Programming (MACH 2510) 3

**Fourth Semester**
- Social Sciences or Humanities elective 3
- Tooling Technology (MACH 2410) 4
- Physics (PHYS 1010) 4
- Social Science elective 3

Footnotes:
1. Evening students should substitute BUOT 1062 and CSST 1051.
2. Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.
3. High school or equivalent preparation required: Two years of high school mathematics including algebra and either geometry or intermediate algebra. Students who don’t have this preparation will be able to get it here, but it may take longer to complete the program.

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Learning transforms lives
Machine Tool Technology
Certificate, Career Program
Division of STEM
Associate Dean: Bradley Cole
Department Chair: John Longwell

The purpose of this certificate program is to prepare students for immediate employment as entry level machine operators. They will become proficient in the operation of basic machine tools such as lathes, milling machines, grinders, drill presses and precision measurement equipment. To prepare for future career opportunities in the operation of machining centers, the College’s first course in CNC programming is also required. Students will develop supportive skills in basic mathematics and writing appropriate to a machinist position and necessary to continue their machinist training in an associate’s degree program in Machine Tool Technology.

Graduates will be able to
• Immediately enter the workforce with the skills required to run both production and job-shop parts;
• Apply their skills to set-up and operate common manufacturing machine tools;
• Edit CNC programs “on-the-fly” to assist in production scheduling;
• Demonstrate proficiency in the use of standard and state-of-the-art metrology to verify parts to a documented drawing.

To provide students with the option of electing this program or the associate’s degree in Machine Tool Technology, the first semester of both programs is identical. High school or equivalent preparation required: Two years of high school mathematics including algebra and either geometry or intermediate algebra. Students who don’t have this preparation will be able to get it here, but it may take longer to complete the program. Some required classes are held at off-site locations evenings and weekends. Students must provide their own transportation.

Program Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010)*</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics (MATH 1230 or higher)*</td>
<td>3</td>
</tr>
<tr>
<td>Technical Concentration (MACH 1040, 1250, 1540; MECH 1050, 1560, 1570; TECH 1110, 1120, 1030)</td>
<td>27</td>
</tr>
<tr>
<td>Total hours</td>
<td>33</td>
</tr>
</tbody>
</table>

Students must have a good working knowledge of WORD (work processing) and EXCEL (spreadsheets and charts) for science and technology courses. If not already required in their program, students who lack these skills should still take TECH 1110 and TECH 1120 to make up the deficiency. Challenge exams for these courses are also available.

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in two semesters.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Metallurgy for the Machinist (MACH 1250)</td>
</tr>
<tr>
<td>Mathematics (MATH 1230 or higher)</td>
<td>Manufacturing Methods (TECH 1030)</td>
</tr>
<tr>
<td>Precision Machining I (MACH 1040)</td>
<td>Precision Machining II (MACH 1540)</td>
</tr>
<tr>
<td>Engineering Graphics I (MECH 1050)</td>
<td>CNC Programming (MECH 1560)</td>
</tr>
<tr>
<td>Technical Word Processing and Research (TECH 1110)</td>
<td>Metrology (MECH 1570)</td>
</tr>
<tr>
<td>Spreadsheet Applications in Technology (TECH 1120)</td>
<td></td>
</tr>
</tbody>
</table>

Footnotes:
* Based on placement, students might be required to successfully complete preparatory course(s) before attempting further course or program requirements.
* All 33 credit hours of this program apply towards the specific 64 credit requirement of the Machine Tool Technology A.A.S. program allowing a student the opportunity to apply the credits earned in the certificate towards the completion of a two-year degree.
* 18 of the 33 credit hours of this program apply towards the specific 64 credit requirement of the Manufacturing Technology A.A.S. program allowing a student the opportunity to apply the credits earned in the certificate towards the completion of a two-year degree.
* 18 of the 33 credit hours of this program apply towards the specific 64 credit requirement of the Mechanical Technology: CAD Design A.A.S. program allowing a student the opportunity to apply the credits earned in the certificate towards the completion of a two-year degree.
Mechanical Technology: CAD Design
Associate in Applied Science Degree, Career program
Division of STEM
Associate Dean: Bradley Cole
Department Chair: John Longwell

Every new product, machine, vehicle, or device we enjoy today represents the work of creative mechanical designers. Those who derive satisfaction from the challenge of solving mechanical problems, making things work, and using computer technology to create new things may have a future in this exciting field. This program represents a blend of applied design theory with the most recent innovations in Computer-Aided Design (CAD), Rapid Prototyping, Computer Numerical Control and traditional industrial practices. Initial courses focus on topics common to all technical fields, including mathematics, engineering graphics, machine tools, and basic electricity. Subsequent courses become more specialized as students apply computer technology to problems related to machine design and automation.

Graduates are prepared to:
• Use of a CAD system for design, manufacture, and analysis; select materials, and design mechanical components and systems;
• Perform technician assignments involving measurements, test equipment, data recording and analysis;
• Communicate with and understand technical terminology;
• Use word processing, spreadsheet, and presentation software;
• Recognize and use project management techniques.

Should students decide to continue their education at the four-year college level, courses taken at Corning transfer to upper-division colleges granting Bachelor of Technology degrees in Mechanical Technology, Manufacturing Technology, and Manufacturing Engineering Technology.

**Program Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020)*</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (MATH 1230-1240 or higher)*</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Physics (PHYS 1010)</td>
<td>4</td>
</tr>
<tr>
<td>Social Sciences or Humanities electives</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>64</td>
</tr>
</tbody>
</table>

Students must have good working knowledge of WORD (word processing) and EXCEL (spreadsheets and charts) for science and technology courses. If not already required in their program, students who lack these skills should still take TECH 1110 and TECH 1120 to make up the deficiency. Challenge exams for these courses are also available.

**Sample Sequence:** (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010)</td>
<td>English (ENGL 1020)</td>
</tr>
<tr>
<td>Mathematics (MATH 1230 or higher)</td>
<td>Mathematics (MATH 1240 or higher)</td>
</tr>
<tr>
<td>Engineering Graphics I (MECH 1050)</td>
<td>Engineering Graphics II (MECH 1550)</td>
</tr>
<tr>
<td>Manufacturing Methods (TECH 1030)</td>
<td>Physics (PHYS 1010)</td>
</tr>
<tr>
<td>Manufacturing Methods Lab (TECH 1080)</td>
<td>Dimensional Metrology (MECH 1570)</td>
</tr>
<tr>
<td>Electricity (ELEC 1010)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Sciences elective</td>
<td>Social Sciences or Humanities elective</td>
</tr>
<tr>
<td>Hydraulics and Pneumatics (MECH 2050)</td>
<td>Machine Design (MECH 2010)</td>
</tr>
<tr>
<td>Technical Mechanics (MECH 1060)</td>
<td>Strength of Materials (MECH 2170)</td>
</tr>
<tr>
<td>Computer Aided Drafting I (CADD 1700)</td>
<td>Computer Aided Drafting II (CADD 2710)</td>
</tr>
<tr>
<td>Materials (MECH 2210)</td>
<td>Technical elective</td>
</tr>
<tr>
<td>Technical Elective</td>
<td></td>
</tr>
</tbody>
</table>

**Footnotes:**
*Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses. Math 1310 does not count toward the 6 credits of math for the program.
*High school or equivalent preparation required: Two years of mathematics including algebra and either geometry or intermediate algebra.
***Technical elective: Choose from MFGT 2020 or MECH 1560. Note: both can be taken if desired and are recommended by the Technology Department.
Nursing
Associate in Applied Science Degree, Career program
Division of Professional Studies
Associate Dean: Deborah Beall Department Director: Krystal Jubilee

The integrated curriculum includes learning experiences in medical, surgical, pediatric, obstetric, geriatric, psychiatric and community settings. Clinical experience is provided in hospitals in Corning, Elmira, Sayre, Montour Falls, Troy and at other health care agencies throughout the area during day, evening, and weekend hours. Students are responsible for their own transportation to clinical agencies and are expected to rotate agencies each semester. Graduates will be able to:

• Provide and manage patient-centered nursing care through interdisciplinary teamwork and therapeutic communication, clinical judgement and nursing process.
• Engage in professional practice within an ethical and legal framework to provide safe, competent, quality care.
• Continue professional growth and development to achieve desired health outcomes utilizing evidence-based practice.
• Utilize informatics and technology in the healthcare system to provide established standard of care.
• Provide patient-centered care for a diverse population across the life span to achieve needs satisfaction.
• Successful completion of this program enables graduates to take the National Council Licensing Examination for Registered Nurse (NCLEX).

This program is accredited by the Accreditation Commission for Education in Nursing, Inc. (ACEN) and registered by the New York State Education Department and the State Board of Regents. Admission to the Nursing program does not guarantee eligibility to register into the first nursing course. Registration into nursing courses is on a space-available basis.

Eligibility and steps:
• Students must have completed all developmental courses (see prerequisites below), place in ENGL 1010 based on CCC assessments tests, and must be eligible to take MATH 1215 or higher by assessment tests.
• Students must successfully complete courses in biology and chemistry either in high school (with a grade of 75% or its letter grade equivalent or higher) or in college (with a grade of C or higher). Science courses will have a shelf life of 7 years effective Fall 2020.
• Students must have completed ALL prerequisite courses prior to beginning the first nursing course.
• All AAS Nursing coursework must be completed with a grade of “C” or better.
• Students will be required to submit a completed “Eligibility Packet for Nursing I”. A minimum cumulative Grade Point Average of 2.75 is required to submit an eligibility packet. The packet includes instructions on what documentation is required to be submitted for review and how to complete the requirements. Required areas include:
  ○ Results of a criminal background check
  ○ Results of Pennsylvania child abuse screening
  ○ Proof of current American Heart Association or American Red Cross BLS certification
  ○ Completion of the “Essential Functions” of the Nursing program form
  ○ Submission of required health form information to the identified company and results of Health Form compliance from identified company
  ○ Minimum GPA of 2.75

Students are required to meet the criteria set by the clinical agencies. This includes health form components, background check and/or child abuse check included in the eligibility packet. In addition, students will be required to have flu vaccines as part of their clinical lab requirement. An applicant who has been convicted of a felony may not be allowed to take the NCLEX. For more information, contact the Nurse Education Department Director. Students entering the Nursing program will need to know basic keyboarding and computer use. CCC offers both of these courses.

Prospective students who have graduated from an accredited PN program may be eligible for advanced placement. All LPNs requesting advanced placement MUST complete an “Advanced Placement Packet”, submit an official PN transcript and evidence of licensure as a practical nurse; meet the entry requirements for the College; meet prerequisite requirements for entrance into their initial nursing course. To be considered for advanced placement LPNs must also complete at least 12 credits of program requirements including Principles of Anatomy and Physiology I and score 75% or higher on an advanced placement exam. For further information regarding the exam please contact the Nurse Education Department. The advanced placement exam is valid for three years and can only be taken once.

Nursing courses, specifically NURS 1100, 1500, 2000, 2100, 2500, have a shelf life of three years. If a student is unsuccessful in any of the clinical nursing courses, NURS 1100, 1500, 2100, or 2500, they would have the opportunity to submit a petition to the Nurse Education Department requesting the chance to repeat the course. Petitions are only available through the Nurse Education Department. Students are only allowed to repeat one clinical nursing course. Students must complete the sequence of nursing courses within five years of beginning their first nursing course.
Prerequisite Courses:

Developmental Courses: Any developmental courses will need to be completed successfully prior to submission of the “Eligibility for Nursing I” packet.

Math: Must be eligible to take MATH1215 or higher by assessment test.

Science: See chart below.

<table>
<thead>
<tr>
<th>Science</th>
<th>If never taken in high school then:</th>
<th>If taken in high school and received less than 75% OR took in college and received less than a “C” then:</th>
<th>If taken in high school and received more than 75% OR taken in college and received more than a “C” then:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>Must take BIOL 1050, 1060, 1020, or 1510 with a grade of “C” or higher.</td>
<td>Must take BIOL 1050, 1060, 1020, or 1510 with a grade of “C” or higher.</td>
<td>Prerequisite is met.</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Must take CHEM 1010, 1020, or 1510 and pass with a grade of “C” or higher.</td>
<td>Must take CHEM 1020, 1010, or 1510 and pass with a grade of “C” or higher.</td>
<td>Prerequisite is met.</td>
</tr>
</tbody>
</table>

Program Requirements:

| English (ENGL 1010 and 1020) | 6 | Nursing (NURS 1100, 1500, 2000, 2100, 2500) | 36 |
| Mathematics elective (MATH 1215 or higher) | 3 | Nursing elective | 1 |
| Social Sciences (PSYC 1101, SOCI 1010) | 6 | Laboratory Science (BIOL 1210, 1220, and 2010) | 12 |
| | | Total hours | 64 |

Footnotes:

Based on placement, students might be required to successfully complete preparatory course(s) and prerequisite courses before attempting further course or program requirements.

1 BIOL 1210 Principles of Anatomy & Physiology I must be taken prior to or concurrently with NURS 1100 Nursing I and BIOL 1220 Principles of Anatomy & Physiology II must be taken prior to or concurrently with NURS 1500 Nursing II. BIOL 2010 Microbiology must be taken prior to or concurrently with NURS 2100 Nursing III. All lab science program requirements must be completed with a grade of C or higher and be completed prior to entering NURS 2500 Nursing IV.

2 A grade of C or better in a nursing course is necessary to continue to the next nursing course. Students who fail to provide safe and satisfactory patient care may be dropped from nursing courses and assigned a final grade of “D” or “F” at any time during the semester. Students who are unsuccessful in NURS 1100, 1500, 2100, and/or 2300 must petition the Department of Nurse Education for a second opportunity to complete the program. An unsuccessful attempt is: completion of a course with a grade of “D”, or withdrawal from a course. Students must petition by February 15th for returning in the fall semester and September 15th for returning in the spring semester. Failure to meet the deadline will result in the non-approval of the student’s petition, and the student will need to wait until the following year. Read- mission to nursing courses is on a space-available basis determined following the last nursing exam of the semester – students will be notified by the Nurse Education Department. Successful completion of NURS 1511 is required prior to re-entry into Nursing II. NURS 2110 is required prior to re-entry into Nursing III, and NURS 2510 is required prior to re-entry into Nursing IV. For re-entering students, credits previously earned for Nursing I, II, and III are valid for three years. After three years previously passed nursing courses will need to be repeated. Only one nursing course can be repeated. Eligibility packets/Advanced Placement packets are available in the Nurse Education Department or on the college website under Academic Programs > Health and Nursing > Nursing. Petitions for the Nursing program are available in the Nurse Education Department. Nursing courses must be completed within five years of beginning initial nursing course.

3 Advanced placement students – all LPNs will need to register and pass the advanced placement exam and submit a completed Advanced Placement Packet. The Advanced Placement exam can only be taken once. Students should contact the Nurse Education Department for more information. Advanced Placement students entering NURS 1500 Nursing II, based on receiving approval for advanced placement and space availability, are required to successfully complete NURS 1511 prior to beginning NURS 1500. Assessment for Prior Learning forms will be completed in NURS 1511 in order to receive credit for NURS 1100 Nursing I. Advanced Placement students will be registered in nursing courses on a space available basis.

4 Evidence of certification in BLS CPR must be maintained throughout the program and evidence submitted to the Nurse Education Department. The ONLY acceptable CPR courses are American Heart Association course “BLS Provider” or American Red Cross course “Basic Life Support for the Professional Rescuer.” No other CPR certification will be accepted. Verification of an updated CPR certification will be monitored throughout each nursing course. Lapses in certification can lead to unsuccessful completion of a nursing course.

5 Prerequisite and program requirements for Math courses will need to be completed with a “C” or higher

6 Nursing electives: Select from NURS 1502, 1515, 1551, 2102, 2502, 2992; HLTH 1100, 1510, 2007, 2503.
Police Basic Training
Certificate, Career program
Division of Professional Studies
Associate Dean: Deborah Beall

The program has been approved by the New York State Division of Criminal Justice Services to meet Phase I of the Police Academy Training. (Phase II occurs after employment.) Entry into the program requires approval from the program coordinator, and completion of all remediation requirements. This certificate is not a guarantee of employment. No persons with a felony conviction in any state will be accepted. All applicants will be required to supply the following information prior to being accepted in this program: a) FBI/DCJS criminal history; b) NYS driver’s abstract from the NYS Department of Motor Vehicles proving the applicant’s privilege to operate a motor vehicle in the state of New York; and c) CCC Health Form documenting immunizations and an up-to-date physical exam which documents the ability of the applicant to perform the physical tasks in the PFIT curriculum. Due to physical fitness requirements from the NYS Department of Criminal Justice Services, all students will be required to successfully achieve a 40% rating on a physical fitness test based on the Cooper Norms, administered by staff designated by the session director and conducted in accordance with NYS DCJS guidelines. Due to the competitive nature of employment positions in law enforcement, each applicant will be required to successfully pass an oral board interview conducted by staff designated by the session director.

Graduates will:
• Have attained a level of expertise in the areas of: New York State Laws, crime scene investigations, physical training, defensive tactics, emergency medical services, emergency vehicle operations, and many other ancillary police activities sufficient for New York State Phase I Certification.

Recognized throughout the northeast as an exceptional educational facility, the CCC Criminal Justice Center is a New York State regional training center that certifies law enforcement officers. It is located on Goff Road (off Route 352) in East Corning. In accordance with NYS Civil Service Law for the appointment of police officers, preference for acceptance will be given to applicants who are between 20 and 34 years of age.

26 credit hours of this program can be applied towards the completion of the Criminal Justice A.A.S. degree and 19 credit hours of this program can be applied towards the completion of the Criminal Justice A.S. degree.

<table>
<thead>
<tr>
<th>Program Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010, 1410)</td>
</tr>
<tr>
<td>Sociology (SOCI 1010)</td>
</tr>
<tr>
<td>Criminal Justice (CRJ 1010, 1540, 1550, 1560, 1570, 1580, 1590)</td>
</tr>
<tr>
<td>Mathematics (MATH 1110 or higher)</td>
</tr>
<tr>
<td>Physical Education (PEPD 1018)</td>
</tr>
<tr>
<td>Total hours</td>
</tr>
</tbody>
</table>

Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>First Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010)</td>
</tr>
<tr>
<td>Sociology (SOCI 1010)</td>
</tr>
<tr>
<td>Introduction to Criminal Justice (CRJ 1010)</td>
</tr>
<tr>
<td>College Mathematics (MATH 1110 or higher)</td>
</tr>
<tr>
<td>Physical Education (PFIT 1018)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Police Physical Conditioning and Wellness (CRJ 1540)</td>
</tr>
<tr>
<td>Laws of NY State (CRJ 1550)</td>
</tr>
<tr>
<td>Police Basic Procedures (CRJ 1560)</td>
</tr>
<tr>
<td>Police Community Interaction (CRJ 1570)</td>
</tr>
<tr>
<td>Police Investigation (CRJ 1580)</td>
</tr>
<tr>
<td>Police Certified First Responder (CRJ 1590)</td>
</tr>
<tr>
<td>Police Report Writing (ENGL 1410)</td>
</tr>
</tbody>
</table>
Sustainability Studies
Associate in Science Degree, Transfer program
Division of Professional Studies
Associate Dean: Deborah Beall

The Sustainability Studies program at Corning Community College is designed for students who are interested in pursuing careers related to environmental sustainability within a large range of professional fields. The College’s grounds, which include Spencer Crest Nature and Research Center, serve as an outdoor classroom and lab space for many of the required academic classes. The program explores the interplay between the natural environment, the built environment, and society through an interdisciplinary lens. Within the two-year scope of this program, students will complete a variety of courses from the natural sciences, social sciences, and humanities in addition to fulfilling SUNY’s general education requirements. The structure of this program will provide students with hands-on experience in the sustainability field through coursework, independent research, internships, and unique learning experiences. Upon completion of this program students will have marketable skills for employment or to advance their education at a transfer institution. Students with degrees in Sustainability may pursue careers in a wide range of vocations, including outdoor education, environmental policy, sustainability planning, conservation management, corporate responsibility, and many others.

Graduates are prepared to:

• Demonstrate understanding of the natural, manmade, and social environments and their interactions as they contribute to the complexity of environmental issues;
• Be able to differentiate among and apply models from various disciplines to environmental problems with the goal of finding sustainable solutions;
• Clearly communicate issues and problems related to social, environmental, and economic sustainability orally and in writing;
• Use the scientific method and social science research methods to document and analyze problems related to environmental sustainability.

Applied learning in the form of an internship or service learning is a required part of the program. This requirement was included to help students clarify career objectives and prepare for those eventual careers. To determine the best fit for the student’s career goals they will sit down with their academic advisor and/or the Applied Learning Coordinator. In addition to hosting applied learning projects at the nature center on campus, host sites will be identified by faculty and the Applied Learning Coordinator.

<table>
<thead>
<tr>
<th>Program Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020)*</td>
</tr>
<tr>
<td>Mathematics (MATH 1413 or higher and MATH 1310)*</td>
</tr>
<tr>
<td>Lab Science (BIOL 1510-1520 or BIOL 1010 and 1030)</td>
</tr>
<tr>
<td>Social Sciences (ECON 2001, ECON 2002)</td>
</tr>
<tr>
<td>Intro to Sustainability (SUST 1000)</td>
</tr>
<tr>
<td>Internship (ITRN 2010) or Service Learning (INTD 1000)</td>
</tr>
<tr>
<td>Research Methods in Social Science (SOCI 2060)</td>
</tr>
<tr>
<td>Environmental Ethics (PHIL 2200)</td>
</tr>
<tr>
<td>Track-specific courses</td>
</tr>
</tbody>
</table>

Program requirements depending on track:
- Sustainability: BIOL 2040, GOVT 1010, HLTH 2200 or 1400, SOCI 1010, SOCI 2400, 1 credit PFIT, and 7-9 credits Free Electives.
- Sustainable Business: ACCT 1030 and 1040, BUSN 1040, 1231, MGMT 2041, MKTG 2050, and 6 credits Free Electives.
- Environmental Policy: SOCI 1010, GOVT 1010, 1020 and 2010, Government Elective, HIST 1050, 2 credit Wellness (HLTH or WELL or PFIT), and 6 credits Free Electives.

Sustainability Track
Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

**First Semester (Fall)**
- English (ENGL 1010) | 3
- Statistics (MATH 1310) | 4
- Plant Biology (BIOL 1010) or Env. Science (BIOL 1500) | 3-4
- Introduction to Sociology (SOCI 1010) | 3
- Introduction to Sustainability (SUST 1000) | 3

**Second Semester (Spring)**
- English Composition II (ENGL 1020) | 3
- Pre-Calculus or higher (MATH 1413) | 4
- General Biology II (BIOL 1520) or Intro to Env. Science/Sustainability (BIOL 1030) | 3-4
- Research Methods in Social Science (SOCI 2060) | 3
- Macro Economics (ECON 2001) | 3

**Third Semester (Fall)**
- Ecology (BIOL 2040) | 4
- American Federal Government (GOVT 1010) | 3
- Environmental Health (HLTH 2200) or Global Health (HLTH 1400) | 3
- Micro Economics (ECON 2002) | 3
- Free Elective | 3

**Fourth Semester (Spring)**
- Internship (ITRN 2010) or Service Learning (INTD 1000) | 3
- Environment and Society (SOCI 2400) | 3
- Environmental Ethics (PHIL 2200) | 3
- Wellness Activity (PFIT) | 1
- Free elective | 4-6
### Sustainable Business Track

**Sample Sequence:** (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>First Semester (Fall)</th>
<th>Second Semester (Spring)</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Comp I (ENGL 1010)</td>
<td>English Composition II (ENGL 1020)</td>
</tr>
<tr>
<td>Statistics (MATH 1310)</td>
<td>Pre-Calculus or higher (MATH 1413)</td>
</tr>
<tr>
<td>Plant Biology (BIOL 1010) or</td>
<td>General Biology II (BIOL 1520) or Intro to Env.</td>
</tr>
<tr>
<td>Environmental Science (BIOL 1500)</td>
<td>Science/Sustainability (BIOL 1030)</td>
</tr>
<tr>
<td>Principles of Business (BUSN 1040)</td>
<td>Research Methods in Social Science (SOCI 2060)</td>
</tr>
<tr>
<td>Introduction to Sustainability (SUST 1000)</td>
<td>Macro Economics (ECON 2001)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester (Fall)</th>
<th>Fourth Semester (Spring)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial Accounting (ACCT 1030)</td>
<td>Internship (ITRN 2010) or Service Learning (INTD 1000)</td>
</tr>
<tr>
<td>Business Law (BUSN 1231)</td>
<td>Principles of Marketing (MKTG 2050)</td>
</tr>
<tr>
<td>Principles of Management (MGMT 2041)</td>
<td>Managerial Accounting (ACCT 1040)</td>
</tr>
<tr>
<td>Micro Economics (ECON 2002)</td>
<td>Free electives</td>
</tr>
<tr>
<td>Free elective</td>
<td></td>
</tr>
</tbody>
</table>

### Environmental Policy Track

**Sample Sequence:** (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>First Semester (Fall)</th>
<th>Second Semester (Spring)</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Comp I (ENGL 1010)</td>
<td>English Composition II (ENGL 1020)</td>
</tr>
<tr>
<td>Statistics (MATH 1310)</td>
<td>Pre-Calculus or higher (MATH 1413)</td>
</tr>
<tr>
<td>Plant Biology (BIOL 1010) or</td>
<td>General Biology II (BIOL 1520) or Intro to Environmental Science (BIOL 1500)</td>
</tr>
<tr>
<td>Environmental Science (BIOL 1500)</td>
<td>Science/Sustainability (BIOL 1030)</td>
</tr>
<tr>
<td>Introduction to Sociology (SOCI 1010)</td>
<td>Research Methods in Social Science (SOCI 2060)</td>
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<tr>
<td>Introduction to Sustainability (SUST 1000)</td>
<td>Macro Economics (ECON 2001)</td>
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<tr>
<th>Third Semester (Fall)</th>
<th>Fourth Semester (Spring)</th>
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</thead>
<tbody>
<tr>
<td>Financial Accounting (ACCT 1030)</td>
<td>Internship (ITRN 2010) or Service Learning (INTD 1000)</td>
</tr>
<tr>
<td>Business Law (BUSN 1231)</td>
<td>Principles of Marketing (MKTG 2050)</td>
</tr>
<tr>
<td>Principles of Management (MGMT 2041)</td>
<td>Managerial Accounting (ACCT 1040)</td>
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<tr>
<td>Micro Economics (ECON 2002)</td>
<td>Free electives</td>
</tr>
<tr>
<td>Free elective</td>
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</tr>
</tbody>
</table>

**Footnotes:**

* Based on placement, students may be required to take ENGL 0980 or ENGL 0990 before taking ENGL 1010, and MATH prerequisite courses before taking the required math credit courses. Successful completion of some or all developmental courses may also be required before students can enroll in the science classes pertinent to this program.

**To fulfill SUNY general education requirements in an additional 2 categories, it is recommended that you select electives from the following areas: American History, Other World Civilizations, Arts, and/or Foreign Language. Contact your advisor for help selecting the electives for your chosen transfer institution and interests.
Teaching Assistant
Certificate, Career program
Division of Professional Studies, Associate Dean: Deborah Beall
Department Chair: Julie Dick

This program is intended for students interested in becoming a Teaching Assistant Level III. The third-level certificate permits the holder to provide direct instructional services to students under the general supervision of a licensed or certified teacher.

Graduates will be expected to
• Demonstrate competence in the following areas: literacy instruction of all students, instruction of students with special needs, awareness and appreciation of a variety of learning styles and instructional methodology, support of math instruction and development of study skills with students.

All candidates for Certification are required to pass the New York State Assessment of Teaching Assistant Skills, offered through the NYS Department of Education. New York State law also requires that candidates for certification submit to a fingerprint supported criminal history background. Additionally, candidates for certification are required to complete two clock hours of coursework or training regarding the identification and reporting of suspected child abuse and maltreatment and two clock hours of coursework or training in school violence prevention and intervention. Training in the identification of child abuse and maltreatment can be obtained via a non-credit course offered by CCC, Professional Development (PDEV) 0011. The Level III Certification is continuously valid with completion of the required professional development hours every five years.

<table>
<thead>
<tr>
<th>Program Requirements:</th>
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<tbody>
<tr>
<td>English (ENGL 1010)*</td>
<td>3</td>
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<tr>
<td>Math for Elementary Teachers I (MATH 1130)*</td>
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<tr>
<td>Foundations of Education (EDUC 1010)</td>
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<tr>
<td>General Psychology (PSYC 1101)</td>
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<tr>
<td>Program Elective**</td>
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<tr>
<td>Child or Adolescent Psychology (PSYC 2207 or 2208)</td>
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<tr>
<td>Fieldwork and Seminar in Education (EDUC 1960)</td>
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<tr>
<td>Teaching in a Diverse Classroom (EDUC 2040)</td>
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<td>Total hours</td>
<td>24</td>
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Sample Sequence: (Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>English (ENGL 1010)</td>
<td>Child or Adolescent Psychology (PSYC 2207 or 2208)</td>
</tr>
<tr>
<td>Math for Elementary Teachers I (MATH 1130)</td>
<td>Fieldwork and Seminar in Education (EDUC 1960)</td>
</tr>
<tr>
<td>Foundations of Education (EDUC 1010)</td>
<td>Teaching in a Diverse Classroom (EDUC 2040)</td>
</tr>
<tr>
<td>General Psychology (PSYC 1101)</td>
<td>Program elective</td>
</tr>
</tbody>
</table>

Footnotes:
*Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.
*All 24 credit hours of this program it into the program requirements for the Liberal Arts and Sciences: Childhood Education (Teacher Education Transfer) degree, Liberal Arts and Sciences: Education/Childhood Education degree, or the Liberal Arts and Sciences: Humanities and Social Sciences, AS degree allowing a student the opportunity to apply the credits earned in the certificate towards the completion of a two-year degree.
**Program electives: ECED 1524 (Language Development and Children), EDUC 1560 (Special Ed & Inclusive Classroom), FYEX 1000 (First Year Experience), SCIN 1110 (Physical Sciences), SCIN 1120 (Natural Sciences), MATH 1130 (Math for Elementary Teachers I), CSST 1031 (Introduction to Graphical User Interface [GUI]), BUOT 1062 (Word Processing for Non-Major), CSST 1051 (Introduction to Spreadsheets), or HUSR 1520 (Introduction to Differing Abilities).
Course Descriptions
Courses are listed alphabetically by subject prefixes and 4-digit numbers that indicate the course level. Generally numbers that begin with a 0 are non-credit or developmental courses and do not apply to a degree. Those that begin with a 1 are freshmen or first-year level courses; a 2 indicates a sophomore or second-year level course and usually has a prerequisite. See the program pages for program specific requirements. When a prerequisite is indicated, students who believe they have knowledge similar to the prerequisite may consult with the course instructor about registration.

New courses are continuously being added and some courses are being deleted from the curricula, so if a course is not listed in this catalog, students should consult the appropriate division to find a description. For more detailed information about a course, the course outline (syllabus) is available from the division secretary. Help in locating information about courses is also available from counselors, advisers, or the Enrollment Advisement Center.

Please note also that not every course is offered every semester. Fall and Spring are used to indicate when courses are normally offered. “ASN” identifies those courses not offered on a regular basis.

For more information on CCC’s non-credit course offerings contact our department of Workforce Development & Continuing Education or visit our website under the Community tab.

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Prefix</th>
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<tbody>
<tr>
<td>Accounting</td>
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<td>Architectural Drawing</td>
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<td>Biology</td>
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<td>Chemical Technology</td>
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<td>Chemistry</td>
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<td>Community Engaged Learning</td>
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<tr>
<td>Computer</td>
<td>CRST, CSCS, CSIT, CSNT, CSST, CSWT</td>
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<tr>
<td>Computing Graphics</td>
<td>CADD</td>
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<td>Criminal Justice</td>
<td>CRJ</td>
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<td>Early Childhood</td>
<td>ECED</td>
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<td>Earth Science</td>
<td>ERTH</td>
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<td>Economics</td>
<td>ECON</td>
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<td>Education</td>
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<td>Electrical Technology</td>
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<td>English</td>
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<td>First Year Experience</td>
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<td>Geography</td>
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<td>Government</td>
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<td>Health Education</td>
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<td>Physical Education Development</td>
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<tr>
<td>Hebrew</td>
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<td>History</td>
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<td>Human Services</td>
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<td>Machine Technology</td>
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<tr>
<td>Management</td>
<td>MGMT</td>
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<tr>
<td>Manufacturing Technology</td>
<td>MFGT</td>
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<tr>
<td>Marketing</td>
<td>MKTG</td>
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<tr>
<td>Mathematics</td>
<td>MATH</td>
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<tr>
<td>Mechanical Technology</td>
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<td>Media Communications</td>
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<td>Medical Terminology</td>
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<td>Music</td>
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<td>Nursing</td>
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<tr>
<td>Office Administration</td>
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<td>Philosophy</td>
<td>PHIL</td>
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<tr>
<td>Physical Education</td>
<td>PFIT</td>
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<td>Physics</td>
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<td>Psychology</td>
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<td>Russian</td>
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<td>Science, General</td>
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<td>Sign Language</td>
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<td>Sociology</td>
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<td>Spanish</td>
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<td>Speech</td>
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<tr>
<td>Sustainability</td>
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<td>Technology, General</td>
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<td>Theatre</td>
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<td>Wellness</td>
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<td>Wine Making</td>
<td>WINE</td>
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<tr>
<td>Word Processing</td>
<td>BUOT</td>
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</table>
# Course Categories Chart

How courses meet discipline electives

<table>
<thead>
<tr>
<th>Category</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business</td>
<td>Accounting, Business, Computer, Computer Network, Computer Science, Management, Marketing, Office Administration, Hospitality.</td>
</tr>
<tr>
<td>Communications</td>
<td>English, Media Communications, Speech, Theatre.</td>
</tr>
<tr>
<td>Honors</td>
<td>All courses with the HONS prefix.</td>
</tr>
<tr>
<td>Humanities</td>
<td>Art, Foreign Languages, Humanities, Media Communications, Music, Philosophy, Sign Language, Speech, Theatre, 2000-level English.</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td>Any Astronomy, Biology, Chemistry, Geology, Physics, and General Science courses which have laboratory experiences along with lectures.</td>
</tr>
<tr>
<td>Mathematics</td>
<td>All courses with the MATH prefix.</td>
</tr>
<tr>
<td>Science</td>
<td>Includes all Laboratory Science and most General Science courses.</td>
</tr>
<tr>
<td>Wellness Requirement</td>
<td><strong>Awareness/Instructional:</strong> Health Education, Wellness. <strong>Activity:</strong> Physical Education, Recreation.</td>
</tr>
</tbody>
</table>

Equivalent Credit Courses Equivalent credit courses are not used to satisfy degree requirements.
ACCT Accounting
Division of Professional Studies
Faculty: Thomas Owen, Barbara Squires

ACCT 1000 Accounting Practices
Vocabulary and concepts of accounting and bookkeeping for the small business. Provides some knowledge of accounting for working in a business environment and some skills to do the accounting in a small business organization. (4 cr. hrs.) (ASN). Cannot be taken for credit if credit has already been earned for ACCT 1030.

ACCT 1010 Microcomputer Bookkeeping
The application of computerized general ledger accounting software with emphasis on processing transactions and payroll, printing reports, as well as managing both accounts receivable and accounts payable. (1 cr. hr.) (ASN). Prerequisites: ACCT 1000 or ACCT 1030, BUSN 1100. Students may not receive credit for both ACCT 2100 and ACCT 1010.

ACCT 1030 Financial Accounting
Theories, principles and procedures related to financial or general accounting. Generally accepted accounting principles as they relate to the valuation of assets and equities and the measurement of accrual-based income. (4 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to take ENGL 1010 and MATH 1100 or higher.

ACCT 1040 Managerial Accounting
Introduction to internal and manufacturing accounting: job order, process and standard costing. Includes cost behavior, cost-volume-profit analysis, operating budgets and capital budgeting techniques, cost allocations and statement of cash flows. (4 cr. hrs.) (Fall, Spring). Prerequisite: ACCT 1030 and BUSN 1100.

ACCT 1060 Fundamental Accounting Procedures
In-depth study of manual accounting procedures, preparation and analysis of the Statement of Cash Flows, as well as alternatives for making accrual and deferral adjustments, including merchandise inventory and closing entries. (2 cr. hrs.) (Spring). Prerequisites: ACCT 1030 and BUSN 1100.

ACCT 1100 Federal Income Tax
Current federal income tax law and its application to the individual taxpayer. Inclusions and exclusions to gross income, deductions, capital gains and losses and preparation of individual returns. (3 cr. hrs.) (ASN).

ACCT 2030 Intermediate Accounting I
Intensive study of generally accepted accounting principles. The accounting cycle; cash; receivables; inventories; property, plant, and equipment; depreciation, and compound interest. (4 cr. hrs.) (Fall). Prerequisite: ACCT 1030.

ACCT 2050 Cost Accounting
Cost accumulation and allocation procedures; cost terminology; tools for planning and control; cost-volume-profit analysis; job order and process systems, standard costing and variance analysis; JIT costing; budgeting; performance evaluation in various environments; ABC and capital budgeting. (4 cr. hrs.) (Spring). Prerequisite: ACCT 1040.

ACCT 2100 Computerized Accounting
Primarily an applications course. A computerized general ledger system for general accounting and preparation of financial statements. Payroll accounting, including federal tax reporting requirements. (3 cr. hrs.) (Spring). Prerequisites: ACCT 1030 and BUSN 1100. Lecture/laboratory.

ANTH Anthropology
Division of Humanities and Social Sciences
Faculty: Edward Franklin

ANTH 2000 Biological Anthropology
This course is an introduction to Biological Anthropology. Students will learn foundations of scientific evolutionary theory, basic biological concepts of biology, genetics, inheritance, human biology, primatology, the course of human evolution, and how this leads to modern human diversity. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to enroll in ENGL 1010. Upper-level course.

ANTH 2120 Cultural Anthropology
A holistic study of human cultural and adaptation over time in a wide range of societies from non-literate, nonindustrial communities, and modern non-Western cultures and indigenous peoples of the Americas. Focus includes kinship systems, economic arrangements, social control, religion and art. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to enroll in ENGL 1010. Upper-level course. Writing in content area. Meets SUNY General Education requirements in Other World Civilization and Social Sciences. Recommended for second-year students.

ARAB Arabic
Division of Humanities and Social Sciences
Faculty: Michael Beykirch

ARAB 1010 Elementary Modern Standard Arabic Conv. & Structure I
Modern standard Arabic vocabulary and expressions. Listening comprehension, speaking ability, and extensive practice in reading and writing the Arabic alphabet. (4 cr. hrs.) (ASN). Lecture/Recitation/Laboratory. Meets SUNY General Education requirement in Foreign Languages.

ARAB 1020 Elementary Modern Standard Arabic Conv. & Structure II
Additional practice in conversation, development of reading and writing skills, and a systematic study of modern standard Arabic grammar. (4 cr. hrs.) (ASN). Prerequisite: ARAB 1010 or equivalent. Lecture/Recitation/Laboratory. Meets SUNY General Education requirement in Foreign Languages.

ARTS Arts/History & Studio
Division of Humanities and Social Sciences
Faculty: Fred Herbst, David Higgins

ARTS 1000 Essentials of Art
An introduction to the visual arts emphasizing the understanding and appreciation of art through a review of the elements and principles of art and design, as well as an examination of two- and three-dimensional art forms, methods and media. (3 cr. hrs.). Meets SUNY General Education requirements in The Arts.

ARTS 1004 Introduction Art Appreciation
An introduction to art as a form of visual communication. Emphasis on historical, social, ethnic, and intellectual basis for creating art, as well as the relevance of art in contemporary culture. (1 cr. hr.) (ASN). Available for New York State teacher certification as required through GST-BOCES This course will NOT meet the Arts requirement for students intending to transfer to teacher education programs.

ARTS 1030 Drawing I
A beginning course employing a variety of media. Emphasis on development of visual perception and drawing ability through the study of shape, proportion, line, linear perspective, value and texture. Still-life, architectural and natural forms will be explored. (3 cr. hrs.) (Fall, Spring). Individual and group instruction; lecture/studio. Fee $30. Meets SUNY General Education requirement in the Arts.
ARTS 1210 Ceramics I
The nature of clay and its aesthetic potential for the creation of functional and decorative forms. Emphasis on hand building, wheel-throwing, clay making, glazing, kiln firing techniques, and maintaining a ceramic studio. (3 cr. hrs.) (Fall, Spring). Individual and group instruction; lecture/studio. Fee $30. Meets SUNY General Education requirement in The Arts.

ARTS 1310 Art History: Prehistoric to Medieval
Survey of representative works of art for increased aesthetic perception. Analysis of architecture, sculpture, and painting of western art history from Ancient Egyptian through the Middle Ages. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to take ENGL 1010. Writing in content area. Meets SUNY General Education requirement in Western Civilization, Humanities, or The Arts.

ARTS 1320 Art History: Renaissance to Modern
Representative works of architecture, painting and sculpture in Western art from the Renaissance to the present for increased aesthetic perception. (3 cr. hrs.) (Spring). Prerequisite: Eligible to take ENGL 1010. Writing in content area. Meets SUNY General Education requirements in Western Civilization, Humanities, or The Arts.

ARTS 1400 Introduction to Digital Art
An introduction to the concepts and tools of digital art. Commercial applications, such as Adobe Photoshop, will be used and demonstrated. Provides experience in applying the principles of design, composition, color systems, and image manipulation. (3 cr. hrs.) (ASN) Lecture/ Activity. Fee $30. Meets SUNY General Education requirement in The Arts.

ARTS 1410 Two-Dimensional Design
Studio investigation of design principles and elements of line, space, shape, value, texture, and color in two-dimensional form. Visual perception, creative insight, visual organization, and craftsmanship in a variety of media. (3 cr. hrs.) (Fall). Individual and group instruction; lecture/studio. Fee $30. Meets SUNY General Education requirement in The Arts.

ARTS 1420 Three-Dimensional Design
Studio investigation of design principles and elements of line, space, shape, value, texture, and color in three-dimensional form. Visual perception, creative insight, visual organization, and craftsmanship—ship. (3 cr. hrs.) (Spring). Individual and group instruction; lecture/studio. Fee $30. Meets SUNY General Education requirements in the Arts.

ARTS 1440 Introduction to Graphic Design

ARTS 1450 Digital Photography

ARTS 1500 East Asian Art
A survey of the arts of China, Korea, and Japan. Topics include how different types of art are tied to and transformed by cultural factors. The distinctive aesthetic styles of East Asia will be explored in painting, sculpture, architecture and decorative arts. (3 cr. hrs.) (ASN). Prerequisite: Eligible to take ENGL 1010. Writing in content area. Meets SUNY General Education requirements in The Arts and Other World Civilizations.

ARTS 1505 Contemporary Craft History
A survey of the important themes, artists, and objects (including glass, ceramics, metalworking, fibers, woodworking, and textiles) of 20th century American craft. Social issues and historical factors affecting the evolution of contemporary craft production will also be examined. (3 cr. hrs.) (Fall, Spring). Prerequisite: ENGL1010.

ARTS 1670 American Art I
A survey of the visual arts of the Thirteen Colonies and the United States of America, 1674-1913 (from Colonial times to the Armory Show). Explores the influence of social and political issues on the painting, sculpture, crafts, and architecture of a growing nation. Emphasizes the thematic and chronological development of a distinctive cultural expression separate from, and occasionally in opposition to, European trends. Prerequisite: eligible to take English 1010. Writing in content area. Meets SUNY General Education requirement in the Arts.

ARTS 2030 Drawing II
Form and space relationships of effective visual composition. An expanded range of media and techniques. Still-life, architectural, portrait and landscape subjects will be explored. (3 cr. hrs.) (Spring). Prerequisite: ARTS 1030. Individual and group instruction; lecture/ studio. Upper-level course. Fee $30. Meets General Education requirements in the Arts.

ARTS 2110 Painting I

ARTS 2120 Painting II
Further developing and expanding the fundamental objectives of painting. Emphasis on mastering composition and an expanded range of media and styles. Critical evaluation of paintings, past and present. (3 cr. hrs.) (ASN). Prerequisite: ARTS 2110. Individual and group instruction; lecture/studio. Upper-level course. Fee $50. Meets CCC General Education in the Arts.

ARTS 2210 Ceramics II
Advanced hand building and wheel-throwing techniques. Further investigation of creative design, compounding glazes and firing techniques (3 cr. hrs.) (Fall, Spring). Prerequisite: ARTS 1210. Individual and group instruction; lecture/studio. Upper-level course. Fee $50. Meets SUNY General Education requirements in the Arts.

ARTS 2540 Intro to Graphic Design II
Advanced projects in graphic design with an emphasis on building a portfolio for employment or transfer. Projects will be based on real world professional design problems. Stylistic and aesthetic issues will be stressed. (3 cr. hrs.) (ASN). Prerequisite: ARTS 1440. Upper-level course. Fee $30.

ARTS 2550 Web Design
Practical and aesthetic aspects of design for the Internet. Includes navigation, usability, complex layout techniques, typography, GIF animation, rollovers, and other effects. (3 cr. hrs.) (ASN). Prerequisite: ARTS 1440 or CSWT 1041. Upper-level course. Fee $30.

ARTS 2620 Ceramic Sculpture
Sculptural concept and communication. The development of understanding and creation of aesthetic formal organizations of three-dimensional space and matter. Studio problems in clay modeling techniques of sculpture construction, carving, and casting. (3 cr. hrs.) (ASN). Prerequisite: ARTS 1210 or 1420. Upper-level course. Fee $40. Meets CCC General Education requirement in the Arts.
ARTS 2990 Independent Studio Projects
Advanced studio projects based on the student’s experience in a studio discipline. Time and nature of the project will be determined by the student and the instructor of each discipline involved. (3 cr. hrs.) (Fall, Spring). Prerequisite: Highest course in the specific area of interest and only with instructor consent. Upper-level course. Specially-supervised independent study. May be taken in each discipline for credit and repeated as an audit. Fee $30.

ASTR Astronomy
Division of STEM
Faculty: Deborah Dann

ASTR 1010 Elements of Astronomy
The nature of stars as individuals and as groups. Astronomical instruments, the sun, stellar evolution, recent developments in astronomy (black holes, quasars, etc.), a survey of the solar system. Use of the College Observatory. (3 cr. hrs.) (Spring). Prerequisite: Placement in college level math, eligible to take ENGL 1010. Lecture/laboratory. Writing in content area. Designed for non-science majors to fulfill laboratory science requirements and for science majors as an elective. Lab Fee. Meets SUNY General Education requirements in Natural Sciences.

ASTR 1020 The Solar System
Introduction to the evolution and properties of the planets, asteroids, comets, and other members of the solar system; includes a historical review of models of the solar system. (3 cr. hrs.) (Fall). Prerequisite: Placement in College level math. Eligible to take ENGL 1010. Lecture/ laboratory/observatory session. Writing in content area. Designed for non-science majors to fulfill laboratory science requirements and for science majors as a free elective. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

ASTR 1030 Observational Astronomy
Constellation identification, photography, observation of planets and deep sky objects, planning and conducting observatory sessions for visiting groups. Optional activities include planetarium and observatory field trips. (1 cr. hr.) (ASN). Lectures/observations. One night each week in the laboratory or at the Observatory, weather permitting.

BIOL Biology
Division of STEM
Faculty: Edward Franklin, Brenda Gustin, Eriko Heise, Robert Koble, David Pindel, Donna Moore Powers, Matthew Skerritt

BIOL 1010 Introduction to Biology - Plants
Explores the biological principles that govern living organisms; surveys bacteria, protists, fungi and plants; and investigates reproduction and growth of plants. Emphasizes sustainability through the study of ecology of the groups at individual and community levels. Designed for the non-major. (3 cr. hrs.) (Fall, Summer). Prerequisite: Eligible to take ENGL 1010. Lecture/laboratory. Lab fee. Meets SUNY General Education requirement in Natural Science.

BIOL 1020 Introduction to Biology - Animals
Surveys the animal kingdom with emphasis on diversity, complexity, ecology and sustainability. Emphasizes animal biology, including organ systems and genetics. Designed for the non-major. (3 cr. hrs.) (Spring). Prerequisite: Eligible to take ENGL 1010. Lecture/laboratory. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

BIOL 1030 Introduction to Environmental Science and Sustainability
Students learn the interrelationships between humans and their environment by exploring the effects of the environment on organisms as well as sustainable solutions in the context of people, the planet, and profits. Topics include human population, biodiversity, ecosystem services, energy use, global climate trends, and food and water security. (3 cr. hrs.) (Winter, Spring, Summer). Prerequisite: Eligible to take ENGL 1010. For non-science majors only. Lecture/laboratory. Meets SUNY General Education requirement in Natural Sciences.

BIOL 1050 Introduction to Human Biology
Covers body chemistry, the organ systems, human genetics, and human ecology. Laboratory offers but does not require vertebrate dissection. (3 cr. hrs.) (Fall, Spring, Summer). Prerequisite: Eligible to take ENGL 1010. Designed for non-science majors. Lecture/laboratory. Lab Fee. Meets SUNY General Education requirements in Natural Sciences.

BIOL 1060 Introduction to Biology - Food Science
Surveys basic biological principles with an emphasis on food science. Includes the characteristics and diversity of life, food requirements of the human body, environmental impact of food production, food resources, and sustainability issues. Laboratory activities reinforce relationships between biological principles and food. Designed for non-majors. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to take ENGL 1010. Lecture/ laboratory. Lab fee. Meets CCC General Education requirement in Natural Sciences.

BIOL 1070 Botany for Gardeners
The principles of plant biology, including growth, development, life cycles, nutrient requirements, and genetics, and its application to agriculture and food production. Conventional and organic methods used to cultivate soil fertility and prevent plant predation and disease as way to promote human and environmental sustainability. Includes maintaining garden plots on campus. (3 cr. hrs.) Prerequisite: eligible to take ENGL 1010. Lecture/laboratory. Lab fee. (Summer).

BIOL 1210 Principles of Anatomy & Physiology I
Presents an introduction to Anatomy and Physiology including body organization, biochemistry, cells, genetics, integumentary, skeletal, muscular, and nervous systems. Laboratory includes the dissection of preserved mammal organs. This course is designed for nurses, physical education students and assistant level health care fields. This course is not recommended for science majors. (4 cr. hrs.) (Fall, Summer). Prerequisites: high school biology and chemistry with a grade of 75% or higher or college biology and chemistry. Eligible to take ENGL 1010 and placement into college level math. Lecture/laboratory. Lab fee.

BIOL 1220 Principles of Anatomy & Physiology II
Presents an introduction to Anatomy and Physiology including the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. Laboratory includes the dissection of preserved mammal organs and fetal pig. This course is designed for nurses, physical education students and assistant level health care fields. This course is not recommended for science majors. (4 cr. hrs.) (Spring, Summer). Prerequisites: BIOL 1210. Lecture/laboratory. Lab fee.

BIOL 1500 Environmental Science
Explores interrelationships between organisms and the environment. The impact of human activities such as pollution, resource use and population growth is studied. Basic ecological concepts provide a foundation for understanding environmental problems and global change. Labs will illustrate the complexity associated with environmental change and emphasize sustainability. Laboratory includes the observation of plants, algae, bacteria and animals. For Math/Science and Environmental Science students. (4 cr. hrs.) (Fall) Prerequisite: Eligible to take ENGL 1010, placement into college level math, high school biology or one semester of college biology. Lab Fee. Cannot receive credit for BIOL 1030 after successfully completing BIOL 1500. Meets SUNY General Education requirement in Natural Sciences.
BIOL 1510 General Biology I
Emphasizes the modern aspects of biology and its techniques. Includes biochemistry, cell structure and physiology, genetics, a survey of the three domains of organisms, and plant structure and physiology. For math/science students. (4 cr. hrs.) (Fall) Prerequisite: Placement into college-level math; eligible to take ENGL 1010, 75% or higher in high school biology and high school chemistry or 75% or higher in high school biology and concurrent enrollment in CHEM 1010 or 1020. Successful completion of any 3 or 4 credit college biology course may substitute for high school biology. Lecture/laboratory. Lab fee. Meets SUNY General Education in Natural Sciences.

BIOL 1520 General Biology II
Emphasizes the modern aspects of biology and its techniques. Includes evolution, animal diversity, human and animal anatomy/physiology, animal behavior, reproduction and development, and ecology. For math/science students. Laboratory requires dissection of a preserved fetal pig and various vertebrate organs, as well as the use of live invertebrates and fish. (4 cr. hrs.) (Spring) Prerequisite: Placement into college-level math; eligible to take ENGL 1010 and 75% or higher in high school biology and high school chemistry or 75% or higher in high school biology and concurrent enrollment in CHEM 1010 or 1020 or BIOL 1510. Successful completion of any 3 or 4 credit college biology course may substitute for high school biology. Lecture/laboratory. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

BIOL 1550 History of Biological Ideas (Honors)
An introduction to the history of some major themes in biology. Includes research, discussion, and analysis of the development of major underlying themes and concepts in biology. Areas covered may include anatomy/physiology, medicine, genetics, evolution, and microbiology. (3 cr. hrs.) (Spring) Prerequisite: ENGL 1010 and one semester of college biology. Lecture, readings, discussions, and presentations. Does not satisfy lab science requirements.

BIOL 1560 Current Issues in the Life Sciences (Honors)
This course will explore and analyze many of the current issues and controversies that involve the various life sciences, with the goal of getting students to critically think about these issues, develop and defend personal positions, and understand the science behind them. The course is divided into four broad modules: the nature of science, health, society, and medicine, genetics & molecular biology, and environmental science & sustainability. It includes research, discussion, analysis, and presentations. (3 cr. hrs.) (Fall) Prerequisite: ENGL 1010 and one semester of college biology. Lecture, readings, discussions, and presentations. Does not satisfy lab science requirements.

BIOL 2010 Microbiology
A study of bacteria, fungi, viruses, and protozoans. Emphasizes the anatomical, cultural, physiological, and reproductive characteristics of true bacteria and practical applications of microbiology including aspects of disease. Various techniques and procedures used in microbiology labs including, culture, enumeration, and identification. (4 cr. hrs.) (Fall, Spring, Summer) Prerequisite: Two college biology courses numbered 1200 or higher OR one semester of college biology courses numbered 1200 or higher and one semester of college chemistry OR BIOL 1210 with a "C" or better. Lecture/laboratory. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

BIOL 2020 Human Anatomy & Physiology I
This course is designed for science majors, the allied health professions (physical therapy, occupational/exercise/respiratory therapy, athletic trainer, tomography, etc.) and students planning on earning advanced degrees (MD, DO, DC, DDS, PhD, pharmacy). A detailed study of the human body: its chemical, molecular, cellular, genetic and tissue components: skeletal and muscular structure and function; nervous system, neural control mechanisms; and sensory pathways and structures. Laboratory requires microscopy, dissection of a preserved cat cadaver and various vertebrate organs. (4 cr. hrs.) (Fall) Prerequisite: Two college biology classes. Lecture/Laboratory. Lab Fee. Student is recommended to take CHEM 1020 or equivalent.

BIOL 2030 Human Anatomy & Physiology II
This course is designed for science majors, the allied health professions (physical therapy, occupational/exercise/respiratory therapy, athletic trainer, tomography, etc.) and students planning on earning advanced degrees (MD, DO, DC, DDS, PhD, pharmacy). Continuing from BIOL 2020, BIOL 2030 is a detailed study of the structure and function of the human endocrine, digestive, respiratory, cardiovascular, excretory, and reproductive systems. Laboratory requires microscopy, dissection of a preserved cat cadaver, various vertebrate organs and physiology lab exercises. (4 cr. hrs.) (Spring) Prerequisite: BIOL 2020. Lecture/ laboratory. Lab fee.

BIOL 2040 Ecology
Examines the relationship between organisms and their environment with special attention paid to the concepts of species interaction, biodiversity, competition, predation, animal behavior, and adaptation and sustainability. Populations, communities, ecosystems, and the biosphere will also be studied. Students will have the opportunity to explore topics and areas of ecology that are of interest to them. Laboratory includes the study of ponds, streams, forests and cemeteries, as well as the use of live invertebrates. (4 cr. hrs.) (Fall) Prerequisite: Eligible to take ENGL 1010 and two college biology courses. Lab fee.

BIOL 2050 Cell Biology
Introduction to the molecular mechanisms of eukaryotic cell function. Topics include biochemistry of the cell, bioenergetics and catalysis, the sub-cellular organelles, intracellular transport, intercellular communication, and cell growth and division. Laboratory exercises will complement these topics by utilizing current techniques in molecular cell biology. (4 cr. hrs.) (Fall) Prerequisite: Two college biology courses. Lecture/laboratory. Lab fee.

BIOL 2060 Genetics
Presents an introduction to modern genetics, including the transmission of hereditary information; DNA structure and replication, gene expression and regulation, mutation, DNA repair, and population genetics. Laboratory exercises complement these topics utilizing current techniques in molecular biology. (4 cr. hrs.) (Spring) Lecture/laboratory. May not be substituted for BIOL 1520. Lab fee. Prerequisite: Two college biology courses. One college chemistry course recommended.

BIOL 2080 Evolution
Examines the basic concepts of evolution, including natural selection, significance of behavior, and sexual reproduction, adaption, speciation, and the history of life on earth. The historical framework of evolutionary thought, as well as modern aspects and applications of the theory, will be studied and discussed. Students will be able to explore topics and areas of evolution that are of special interest to them. (3 cr. hrs.) (Spring) Prerequisite: Eligible to take ENGL 1010 and two college biology courses. Lecture only. Fulfills upper-level science requirements. Does not satisfy lab science requirements.

BIOL 2090 General Botany
Presents a study of the plant world from plant cells to ecology. Emphasizes plant growth, structure, function, and interactions with their environment. Designed for students interested in plant medicinal chemistry and botanical studies. (4 cr. hrs.) (Spring) Prerequisite: one year of college biology with a grade of C or higher, preferably BIOL 1510-1520. Lecture/laboratory. Lab Fee. Laboratory includes the study of unique plants including exotic and hemp plants.
BUOT Business/Office Technology
Division of Professional Studies
Faculty: Deborah Dunbar

Note: The following courses may be taught in a simulated office environment.

BUOT 1010 Foundations for Word Processing
Introduces touch-typing skills, speed development, beginning word processing, and proofreading using software packages on the computer within the framework of an office environment. (3 cr. hrs.) (ASN). Lecture/Laboratory. Recommended for students who are preparing for employment in office technology and others who want a good foundation in keyboarding and word processing.

BUOT 1061 Computer Keyboarding
Touch typing on computer keyboards to obtain a general proficiency level. (1 cr. hr.) (ASN). Lecture/laboratory. Not recommended for students who need a good foundation in keyboarding and word processing.

BUOT 1062 Word Processing for Non-Major
Using microcomputer word processing software for basic word processing functions including editing, formatting, indenting, columns, tables and document enhancements. (1 cr. hr.) (ASN). Laboratory.

BUOT 1101 Introduction to Desktop Publishing
Use of microcomputer and current application software to introduce the elements of graphic design. Concepts include graphic and text organizers, text blocks, headlines, margins, columns, white space, fonts, and graphic images. (1 cr. hr.) (ASN). Prerequisite: BUOT 1091.

BUOT 1520 Intermediate Word Processing
Continued development of speed building within the intermediate and advanced word processing skills such as merging documents, desktop publishing, graphic design, and newsletter layout. Students are required to master proofreading techniques and continue to develop professionalism in researching, writing, presenting and supervising. (3 cr. hrs.) (ASN). Prerequisite: BUOT 1010. Lecture/laboratory.

BUOT 2010 Office Procedures
Enhancing personal/professional skills while learning concepts of information management; meetings, conference, and travel arrangements; financial and legal functions; telephone techniques; and records management. (3 cr. hrs.) (ASN.) Lecture/laboratory.

BUOT 2960 Office Technology Practicum
On-the-job training in business or industry. The practicum experience is a minimum of 180 hours and includes a weekly on-campus seminar used for discussion of the practicum experiences, assessment of learning, and leadership training. (4 cr. hrs.) (ASN). Prerequisite: 2.0 program GPA and prerequisite or co-requisite BUOT 2010.

BUSN Business – General
Division of Professional Studies
Faculty: Timothy Bonomo, Deborah Dunbar, Robert Kephart II, Jennifer O’Hara, Thomas Owen

BUSN 1003 Personal Budgeting
Introduction to personal budgeting, including budget preparation and analysis, understanding credit reporting agency procedures and credit reports, overview of what types of credit, effective credit card use, and establishing financial goals. (.5 cr. hr.) (ASN).

BUSN 1021 New Venture Creation
Starting a new business, understanding who entrepreneurs are, seeking and evaluating opportunities for new ventures, and gathering resources to convert those opportunities into business. (3 cr. hrs.) (ASN).

BUSN 1030 Business Communications
Effective techniques for oral and written communications. Analyzing and writing letters, memos, and business reports. Proficiency in language mechanics will be assessed. (3 cr. hrs.) (Fall, Spring).

BUSN 1033 Applied Business Mathematics
The four arithmetic processes and the algebra of business. Application of mathematics to typical business problems. Taxes, insurance, payroll, depreciation, trade and cash discounts, markup, simple interest and bank discounts, and financial statement analysis. (3 cr. hrs.) (Fall, Spring) Prerequisite: Placement in MATH 1110 or higher.

BUSN 1040 Principles of Business
Survey of and introduction to economics, marketing, management, labor relations, finance, accounting, business law and related topics. Nature of organization and operation of American business. (3 cr. hrs.) (Fall, Spring).

BUSN 1055 Professionalism
Understanding of individual and workplace needs as they relate to professionalism, team building, and career growth. Topic areas include human relations, business ethics, business etiquette, team building concepts, and career enrichment. (3 cr. hrs.) (Fall, Spring). Discussion, participation, and role-playing exercises. May be taught in a simulated work environment.

BUSN 1060 Customer Service & Relationship Management
Helps students define customer service standards for the organization and the individual, develop skills for listening and calming oneself and others, explore options for resolving issues with realistic expectations and gain techniques to maintain perspective and equilibrium. (3 cr. hrs.) (ASN).

BUSN 1100 Business Applications and Solutions
Communication, decision making, and critical thinking facilitated by the use of software using online tools and word processing, spreadsheets, presentations and databases in a simulated business environment to support other required business courses. (3 cr. hrs.) (Fall, Spring).

BUSN 1230 Personal Law
Survey of the laws affecting common legal problems of consumers and households. Topics include: hiring a lawyer; the court systems and procedures; small claims court procedures; family law; landlord/tenant; buying a home; estate planning; and other topics as time permits. (3 cr. hrs.) (ASN).

BUSN 1231 Business Law I
Introduction to the American legal system and specific topics that affect business conduct. Includes legal terminology, the court systems and civil procedures, business ethic, tort law, criminal law, intellectual property and computer law, common law contract, and other topics as time permits. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to take ENGL 1010.

BUSN 1232 Business Law II
Upper-level course covering the modern statutory and common law regulation of business relations- ships and transactions. Includes the Uniform Commercial Code topics of sales, secured transactions, commercial paper/banking, business organizations, bankruptcy, agency and accountant liability. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to take ENGL 1010.

BUSN 2020 Personal Finance
Basic areas of personal finance, such as banking, home financing, insurance, investments, credit financing, and retirement planning. (3 cr. hrs.) (ASN).

BUSN 2035 Principles of Finance
The basic principles of business finance. Types of business organizations; instruments of credit and finance; short, intermediate and long-term financing; analysis of financial statements; forecasting; budgeting. (2 cr. hrs.) (ASN). Prerequisite: ACCT 1030, 1040.
BUSN 2040 Principles of Investment
Securities as they impact the financial marketplace. General securities, fixed income investments, municipals, mutual funds, options, margins, the Federal Reserve, and taxation of investments. (3 cr. hrs.) (ASN).

BUSN 2053 Business Statistics & Data Analysis
The application of basic statistical methods to business problems. Studies include the assembling of statistical data, sampling techniques, measures of central tendency, dispersion, regression and correlation analysis, hypothesis testing, and probability theory. A statistical software package for data analysis will be utilized throughout the course for presentation and student project work. (4 cr. hrs.) (Fall, Spring). Prerequisite: MATH 1110 or higher and BUSN 1100.

BUSN 2970 Business Management Internship
Capstone course to provide management students the opportunity for experiential learning combined with utilization of Microsoft Project software. Students will be required to complete a minimum of 40 hours of field experience in a local business. The field experience may consist of software instruction and application exercises, case study analysis, simulations and development of work teams. The classroom portion of the course is analyzed and evaluated through the completion of a portfolio that students develop as the semester progresses. At the end of the course, students complete a final presentation. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1010, MGMT 2041, MGMT 2047, BUSN 1040, BUSN 1055, BUSN 1100, and Associate Dean of Business or instructor consent. This course is a combination of seminar and field experience and may be team taught.

CADD Computing Graphics
Division of STEM
Faculty: Dale Crandall, John Longwell

CADD 1700 Computer Aided Drafting I
Introduction to computer aided design (CAD) techniques. Teaches commands necessary to generate basic three dimensional part models, assemblies and two-dimensional engineering drawings through use of a computer using the solid modeling program, Solid Works. (3 cr. hrs.) (Fall, Spring). Lecture/graphics terminal lab. Lab fee.

CADD 2710 Computer Aided Drafting II
Advanced computer aided design (CAD) techniques. Students utilize the solid modeling program, Solid Works, to generate three-dimensional parametric models assemblies and drawings. Topics include weldments, sheet metal parts, surfacing, motion simulation and mold tools. Students also utilize a laser interferometer (3D Laser Scanner) for reverse engineering and a fused deposition 3D Platter for Rapid Prototyping their designs. (3 cr. hrs.) (Spring). Prerequisite: CADD 1700. Lecture/ graphics terminal lab. Lab fee.

CHEM Chemistry
Division of STEM
Faculty: Kamesh Narasimhan, Ruth Wenner, Kyle Williams

CHEM 1010 Chemical Principles
Introductory general chemistry emphasizing applied theory, problem solving, unit-conversion, lab skills. (4 cr. hrs.) (Fall, Spring) Prerequisite: Placement into college level math. Eligible to take ENGL 1010. Not recommended for math/science students. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

CHEM 1020 Introduction to Organic & Biochemistry
This course provides a survey of basic facts and principles of organic chemistry and biochemistry. Topics include the structure, properties, and reactivity of some of the major types of organic functional groups. Other topics include carbohydrates, lipids, proteins, enzymes, nucleic acids, and metabolism. (4 cr. hrs.) (Fall, Spring, Summer) Prerequisite: Eligible to take ENGL 1010, placement into college level math. Lecture/laboratory. Designed for nursing and other allied health majors; not recommended for math/science students. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

CHEM 1030 Environmental Chemistry
Explores chemistry in the context of the world around us, with an emphasis on topical issues such as the air we breathe, the water we consume, climate change, sources of energy, and the impact of plastics. This course takes a “citizens first” approach that focuses on better understanding societal issues in order to serve as informed citizens. (3 cr. hrs.) (Summer). Prerequisite: Eligible to enroll in ENGL 1010. Online lecture/laboratory. Designed for non-science majors to fulfill laboratory science requirements, and for science majors as an elective. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

CHEM 1510 General Chemistry I
This is the first course in a two-course general chemistry sequence, which covers the principles of chemistry and its quantitative aspects. Topics include the atomic theory of matter, characteristics of structure and bonding, reactions and stoichiometry, electronic structure, and the periodic table of the elements. Descriptive chemistry is integrated throughout the course. (4 cr. hrs.) (Fall, Summer) Prerequisite: Eligible to take ENGL 1010. 75% or higher in high school chemistry and placement in college level math, or CHEM 1020 and placement in college level math, or CHEM 1010. High school physics and a familiarity with algebraic calculations is strongly recommended. Intended for math/science students. Lecture/laboratory. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

CHEM 1520 General Chemistry II
This is the second course in a two-course general chemistry sequence, which covers the principles of chemistry and its quantitative aspects. Topics include intermolecular forces and the phases of matter (gases, liquids, and solids), chemical kinetics, chemical equilibrium, properties of solutions, chemical thermodynamics, and electrochemistry. Descriptive chemistry is integrated throughout the course. (4 cr. hrs.) (Spring, Summer) Prerequisite: CHEM 1510. High school physics and a familiarity with algebraic/logarithmic calculations is strongly recommended. Intended for math/science students. Lecture/laboratory. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

CHEM 2010 Organic Chemistry I
Studies the principles and techniques to describe, explain, and predict the behavior of organic compounds including theories of bonding, nomenclature and isomerism, spectroscopy, resonance and hyper conjugation and reaction mechanisms. (5 cr. hrs.) (Fall). Prerequisite: Two college chemistry courses. Lecture/laboratory. Lab fee. Meets General Education requirements in Natural Sciences.

CHEM 2020 Organic Chemistry II
Applies the principles to selected functional groups. Application of organic chemistry to other fields. Laboratory techniques in the analysis, isolation and synthesis of organic compounds. (5 cr. hrs.) (Spring). Prerequisite: CHEM 2010. Lecture/ laboratory. Lab fee. Meets General Education requirement in Natural Sciences.

CHEM 2033 Analytical Chemistry
Fundamental principles of quantitative chemical analysis, including sampling and sample preparation, methods of chemical analysis, and the reporting and interpretation of results. Strong emphasis on the use of standards, methods of calibration, experimental design, data collection, statistical treatment of results, documentation, quality control and assurance, and good laboratory practices. Techniques include volumetric and gravimetric methods of analysis, potentiometry, spectrophotometry, and various forms of chromatography. (5 cr. hrs.) (Fall) Prerequisite: Two college-level chemistry courses. Designed for math/science and chemical technology students.
CHEM 2043 Chemical Instrumentation
Survey of spectroscopic, chromatographic, electroanalytical and other techniques used in instrumental analysis. Strong emphasis on the underlying theory, instrumentation and components, use of standard operating procedures, experimental design, collection and interpretation of results, and troubleshooting. Techniques include absorption and emission spectroscopy, vibrational spectroscopy, nuclear magnetic resonance spectroscopy, gas chromatography, high-performance liquid chromatography, and mass spectrometry. (5 cr. hrs.) (Spring). Prerequisite: CHEM 2033. Designed for math/science and chemical technology students.

CHIN Chinese
Division of Humanities and Social Sciences

CHIN 1010 Beginning Chinese I
Practice in conversation, development of reading and writing characters, and a systematic study of grammar. Attention to the culture of Chinese-speaking countries. (4 cr. hrs.) (ASN). Lecture/Recitation/Laboratory. Meets SUNY General Education requirement in Foreign Languages.

CHIN 1020 Beginning Chinese II
Additional practice in conversation, development of reading and writing characters, and a systematic study of grammar. Attention to the culture of Chinese-speaking countries. (4 cr. hrs.) (ASN). Prerequisite: CHIN 1010 or equivalent Lecture/Recitation/Laboratory. Upper-level course. Meets SUNY General Education requirement in Foreign Languages.

CHIN 2010 Intermediate Chinese I
Development of greater facility in reading, writing, speaking, and understanding the language through systematic continued study of its structures. Attention to the culture of Chinese-speaking countries. (4 cr. hrs.) (ASN). Prerequisite: CHIN 1020 or equivalent. Lecture/Recitation/Laboratory. Upper-level course. Meets SUNY General Education requirement in Foreign Languages.

CHIN 2020 Intermediate Chinese II
Continued development at the intermediate level of a facility in reading, writing, speaking and understanding the language through systematic study of its structures. Attention to the culture of Chinese-speaking countries. (4 cr. hrs.) (ASN). Prerequisite: CHIN 2010 or equivalent. Lecture/Recitation/Laboratory. Upper-level course. Meets SUNY General Education requirement in Foreign Languages.

CHTK Chemical Technology
Division of STEM
Faculty: Kamesh Narasimhan, Kyle Williams

CHTK 2960 Chemical Technology Work Internship
A co-op work experience for chemical technology students at a regional industrial site. (3 cr. hrs.) (ASN). Prerequisite: CHEM 2033.

CRJ Criminal Justice
Division of Professional Studies
Faculty: Mark Hartwell

CRJ 1010 Introduction Criminal Justice
Agencies and processes in the criminal justice system – legislature, police, prosecutor, public defender, courts and corrections. Roles and problems of law enforcement in a democratic society, component interrelations and checks and balances. (3 cr. hrs.) (Fall, Spring).

CRJ 1020 Criminal Evidence & Procedure
The admissibility of criminal evidence in the courtroom, including a review of its historical development, the effect of changing philosophies, and current constitutional and procedural considerations. Case studies. (3 cr. hrs.) (Fall, Spring). Prerequisite: CRJ 1010, ENGL 1010. Lectures/case studies.

CRJ 1030 Police Operations
Survey of law enforcement agencies emphasizing the patrol function and the prevention of crime. Traffic, investigation, juvenile, vice, and other specialized operational units. (3 cr. hrs.) (Fall, Spring). Prerequisite: CRJ 1010, ENGL 1010, and satisfactory completion of all reading placements.

CRJ 1040 Criminal Procedure Law
Criminal Procedure Law of the State of New York. Applicability of definitions, geographical jurisdictions of offenses, scope of prosecution, rules of evidence, preliminary proceedings, local criminal court, laws of arrest, proceedings from arraignment to plea, pre-trial proceedings, search and seizure. (3 cr. hrs.) (Fall, Spring).

CRJ 1050 Penal Law
Penal Law of the State of New York. Application of law and definitions, justification as a defense, anticipatory offenses, offenses against the person, offenses involving damage and intrusion to property. Theft, fraud, public health, morals, and public order. (3 cr. hrs.) (Fall, Spring).

CRJ 1070 Police - Community Relations
Explores the interrelationship between criminal justice agencies and various segments of the community they serve. Forces that affect interaction between the police and citizens including the psychology of bias, racism and cross cultural communication will be examined along with concepts of community oriented policing services. (3 cr. hrs.) (Fall, Spring).

CRJ 1206 Collection, Identification, and Preservation of Evidence
Collecting, packaging, and transporting evidence. Lab examination, custody, and its exhibition in court. (1 cr. hr.) (Fall, Spring). Fee $10.

CRJ 1209 Narcotics & Dangerous Drugs
Problems created by illegal use of narcotics and dangerous drugs. Classification, description, history of drugs. Etiology of addiction, extent of drug use, relationships to criminal behavior, and methods of police investigation and control. (1 cr. hr.) (Fall, Spring). Fee $10.

CRJ 1210 Robbery
Legal aspects, classification, planning, use of disguises, the extent of the problem, and surveillance photography in robbery investigations. (1 cr. hr.) (Fall, Spring).

CRJ 1214 NYS Security Guard Certificate
Intended to meet the requirements set forth by the New York State Security Guard Act of 1992 for the certification of security guards. It includes the curriculum for the Eight Hour Pre-Assignment security guard training course, as set forth by NYS Department of Criminal Justice Services (DCJS), covering the duties, responsibilities, and functions of security guards. The topics covered will include the role of a security officer, the legal powers and limitations of a security officer, emergency situations, communication and public relations, access control, ethics and code of conduct. Upon successful completion of this course, the student will receive the NYS Security Guard 8 Hour Pre-Assignment Certificate. (0.5 cr. hrs.).

CRJ 1219 Hate Crimes
A study of hate crimes, including the history, terminology, motivations, and types of hate crimes along with both the groups and individuals responsible for hate crimes and these groups and individuals victimized by hate crimes. In addition, an examination of the state and federal hate crime laws and the penalties for such offenses. (1 cr. hr.) (Fall, Spring).

CRJ 1540 Police Physical Conditioning and Wellness
Assists the student in developing an optimal level of physical fitness in the areas of cardio-respiratory endurance, muscular strength, flexibility, speed, and endurance through personal training, nutrition, and stress awareness. This level of physical fitness meets the NYS Department of Criminal Justice Services requirements for the included portions of the Basic Course for
Police Officers. (2 cr. hrs.) (Spring). Prerequisite: Students must be accepted into the Police Basic Training Certificate program and have successfully completed all courses required in the fall semester of the program.

**CRJ 1550 Laws of New York State**
Provides a comprehensive overview of NYS laws commonly used in professional law enforcement applications and meets the NYS Department of Criminal Justice Services requirements for the included portions of the Basic Course for Police Officers. (3 cr. hrs.) (Spring). Prerequisite: Students must be accepted into the Police Basic Training Certificate program and have completed the courses required in the fall semester of the program. Grading: A through C, F.

**CRJ 1555A Police Procedures**
Provides a comprehensive overview of the basic skills and practices necessary for daily professional law enforcement duties which meet the NYS Department of Criminal Justice Services requirements for the included portions of the Basic Course for Police Officers. (3 cr. hrs.) (Spring). Prerequisite: Students must be accepted into the Police Basic Training Certificate program and have completed the courses required in the fall semester of the program.

**CRJ 1570 Police Community Interaction**
Provides a comprehensive overview of community interaction and personal communication skills commonly used in professional law enforcement applications that meets the NYS Department of Criminal Justice Services requirements for the included portions of the Basic Course for Police Officers. (3 cr. hrs.) (Spring). Prerequisite: Students must be accepted into the Police Basic Training Certificate program and have completed the courses required in the fall semester of the program.

**CRJ 1580 Police Investigations**
Provides a comprehensive overview of police investigative techniques commonly used in professional law enforcement applications that meets the NYS Department of Criminal Justice Service’s requirements for the included portions of the Basic Course for Police Officers. (3 cr. hrs.) (Spring). Prerequisite: Students must be accepted into the Police Basic Training Certificate program and have completed the courses required in the fall semester of the program.

**CRJ 1590 Police Certified First Responder**
Provides a comprehensive overview of police investigative techniques commonly used in professional law enforcement applications that meets the NYS Department of Criminal Justice Service’s requirements for the included portions of the Basic Course for Police Officers. (2 cr. hrs.) (Spring). Prerequisite: Students must be accepted in the Police Basic Training Certificate program and have completed the courses required in the fall semester of the program.

**CRJ 2010 Criminal Investigation I**
Fundamentals of investigation, crime scene search and recording, collection and preservation of physical evidence. Scientific aids, modus operandi, sources of information, interview and interrogation, follow-up and case preparation. Methods of investigation, initial steps, obtaining information, specific offenses. (4 cr. hrs.) (Fall, Spring). Prerequisite: CRJ 1010 and ENGL 1010. Lecture/laboratory. Fee $25.

**CRJ 2015 Criminal Investigations**
A study of the fundamentals of criminal investigations, including general criminal investigative methods, preliminary investigations, and the subsequent phases of investigations. Topics include investigative and crime scene management, utilization of criminalistics experts and forensic science laboratories, sources of information and informants, basic criminal intelligence analysis, interviews and interrogations, documentation and report writing, witnesses, surveillance operations, various types of investigations including undercover and sting operations, legal issues and case law, search and seizure warrants, case files, prosecution preparation, courtroom testimony and demeanor, and trials. In addition, the course will review the current role of criminal investigations in terrorism and national security issues. (3 credits) (Fall, Spring).

**CRJ 2020 Criminal Investigation II**
The investigator in court, identification and reproduction, specialized scientific methods, investigative operations. (4 cr. hrs.) (Spring). Prerequisite: CRJ 2100. Lecture/laboratory. Fee $25.

**CRJ 2025 Criminal Evidence & Procedure**
The admissibility of criminal evidence in the courtroom, including historical development, changing philosophies, and current constitutional and procedural considerations. (3 cr. hrs.) (Fall, Spring). Prerequisites: CRJ 1010, 1040, 1050, and ENGL 1010.

**CRJ 2030 Evolution of Criminal Law**
The evolution of criminal law from ancient times to current U.S. law. How guilt is established, defining criminal conduct, mala prohibita v. mala in se, the significance of resulting harm, punishment vs. rehabilitation, exculpation. (3 cr. hrs.) (Fall). Prerequisite: CRJ 1050, ENGL 1010. Writing in content area. Upper-level course.

**CRJ 2040 The Constitution & the Accused**
Advanced study of the fourth, fifth, and sixth Constitutional amendments. Theories and values of the framers, the evolution of these theories and values to our current criminal justice system. (3 cr. hrs.) (Spring). Prerequisite: CRJ 1050, CRJ 2030, ENGL 1010. Writing in content area.

**CRJ 2050 Criminal Justice Ethics**
Identification and analysis of the diverse ethical issues encountered in the Criminal Justice System. Traditional ethical theories examined and applied to topics such as discretion, deadly physical force, misconduct, gratuities, authority and responsibility, affirmative action, civil disobedience, strikes, undercover operations, whistle blowing, and privacy. (3 cr. hrs.) (Fall, Spring). Prerequisite: CRJ 1010, ENGL 1010.

**CRJ 2105 Juvenile Justice System**
Examines the social controversy and debate over what should be done with juvenile delinquents and juvenile offenders. Investigates the role corrections should play in society’s campaign against problem youths and youthful offenders, attempting to answer what effects of various social problems as well as the economic, political, religious, and technological forces that influence patterns of juvenile behavior and the formulation of interventions and punishments. (3 cr. hrs.) (ASN).

**CRJ 2203 Treatment of Criminal Offender**
The post-conviction process. Development of a correctional philosophy, theory, and practice; description of institutional operation, programming and management; community-based corrections; probation and parole. (3 cr. hrs.) (Fall, Spring). Prerequisite: ENGL 1010.

**CRPL Career Planning**
Division of Professional Studies

**CRPL 1010 Career Directions**
Students will explore careers through self-analysis and consideration of the job outlook. Career and college planning will be conducted through self-assessing interests, values and skills as well as defining short and long-range career goals. Includes FOCUS career assessment, career research and informational interviewing. (1 cr. hr.) (Fall, Spring). Lecture/discussion/activities.

**CRPL 1020 Job Search Strategies**
Development of a plan and portfolio of necessary documents for a job search. Includes resume and cover letter writing, application completion, targeting employers, networking and interviewing techniques. (1 cr. hr.) (Fall, Spring). Lecture/discussion/activities. Co-requisite: ENGL 1010.
CRPL 1030 Understanding Work Expectations
An in-depth exploration of employer expectations including values, ethical behavior, conduct, first impressions, diversity and problem-solving. Importance is directed toward acquiring knowledge and skills in interpersonal relationship and performance on the job to improve job satisfaction and success. (2 cr. hrs.) (Fall, Spring). Lecture/discussion/activities.

CRST Computer Repair Systems
Division of STEM
Faculty: DJ Dates, Joseph DeLeone, Matthew Haas, Elmarine Jimenez, Joseph Oppenheim
Note: Shelf Life Alert! Course may not be used for any computer program if more than 5 years have passed since course was taken.

CRST 1010 Computer Hardware Technologies
Prepares students for the PC hardware portion of A+ Certification exams. Topics follow objectives as defined by current CompTIA standards. Topics include computer proper PC assembly/disassembly techniques, motherboards, CPUs, memory, mass storage devices, power supplies, network hard- ware, and safety. (4 cr. hrs.) (Fall, Spring). Prerequisite: Ready to take a college-level composition course and have no developmental mathematics requirements. Lecture/Laboratory. Fee $50. Shelf Life Alert.

CRST 1030 Operating System Technologies
Prepares students for the Operating System portion of A+ Certification exams. Topics follow objectives as defined by current CompTIA standards. Topics include Operating Systems fundamentals, installation, configuration and upgrading of Windows based systems, basic diagnosis and troubleshooting of operating system problems and an introduction to Windows Networking. (4 cr. hrs.) (Spring). Prerequisite: Eligible to take a college-level composition course and completion of all developmental mathematics requirements. Lecture/Laboratory.

CRST 2040 Systems Configuration and Maintenance
Use of diagnostic hardware and software, virus and spyware scanning tools, troubleshooting of various system level and application packages. Backup/disaster recovery techniques, and preventative maintenance are discussed. Detailed discussion of mass storage devices, such as CD/ DVD standards and hard disks included. Attention will be given to current trends in hardware and software technology. (4 cr. hrs.) (Fall). Prerequisites: CRST 1030, CSNT 1200, and have taken or be taking CRST 1010. Lecture/Laboratory. Lab fee. Shelf Life Alert

CRST 2050 Information Technology Practicum
A course containing a supervised work experience in an information technology field at local industries, community agencies and/or education institutions. Work must directly relate to the student’s chosen concentration. (4 cr. hrs.) (Fall, Spring). Prerequisite: CSNT 1200 and either CSIT 1320 or CRST 2040, or CSNT 1200 and concurrent enrollment in CRST 2040. Shelf Life Alert.

CSCS Computer Science
Division of STEM
Faculty: DJ Dates, Joseph DeLeone, Matthew Haas, Elmarine Jimenez, Joseph Oppenheim
Note: Shelf Life Alert! Course may not be used for any computer program if more than 5 years have passed since course was taken.

CSCS 1200 Computer Essentials
Theories and applications of computers. Includes computer architecture, hardware, software, number coding, problem solving paradigms, microcomputer applications, network technology, computer ethics, computer careers, e-commerce, and system software. (4 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to take a college-level composition course and completion of all developmental mathematics requirements. Lecture/Laboratory. Shelf Life Alert.

CSCS 1240 Structured and Object-Oriented Problem Solving
Logic for analyzing problems and communicating problem-solving procedures to the computer. Data types and variables, control structures, arrays, sorting and searching, “common sense” analysis, problem-solving, logic flow charting, pseudo coding, and Unified Modeling Language (UML). (3 cr. hrs.) (Fall, Spring). Prerequisites: Eligible to take a college-level composition course and completion of all developmental mathematics requirements. Lecture/Laboratory. Shelf Life Alert.

CSCS 1320 C/C++ Programming
C/C++ Programming for systems, commercial, and scientific applications. Topics include: procedural vs. object-oriented programming, data types, operators, standard control structures, functions, pointers, arrays, structures, classes, objects, encapsulation, inheritance, polymorphism templates and libraries. (4 cr. hrs.) (Fall, Spring) Prerequisite: CSCS 1240. Lecture/Laboratory. Shelf Life Alert.

CSCS 1730 UNIX/Linux Fundamentals
UNIX Operations System basics. Exploration of the command-line environment, use of the UNIX shell by model editing, shell scripting, regular expressions, file manipulation, filters, wild cards, I/O manipulation, and related topics. Exposure to graphical environments and related components such as X server, Window Manager, and Desktop environments. (4 cr. hrs.) (Fall, Spring). Prerequisite: Be taking or have taken CSCS 1240 Lecture/Laboratory. Shelf Life Alert.

CSCS 2320 Data Structures
Data and data structures, linear lists, strings, stacks, queues, linked lists, arrays, and orthogonal lists. Trees, multi-linked structure, table search, sorting techniques, storage allocation, and sequential and random file access. (3 cr. hrs.) (Fall). Prerequisite: CSCS 1320. Lecture/Laboratory. Shelf Life Alert.

CSCS 2330 Discrete Structures
Discrete mathematical foundations and their relationship to computing. The foundation of discrete structures, mathematical reasoning, combinatorics, graphs and trees, Boolean Algebra and logic gates, and Karnaugh mapping. (3 cr. hrs.) (Fall) Prerequisite: MATH 1240 and either CSCS 1320 or CSCS 2420. Students cannot receive credit for this course and MATH 2330. Shelf Life Alert.

CSCS 2420 Java Programming
Basic concepts of object-oriented programming, fundamentals of the language and syntax, algorithmic thinking, problem solving, control structures, data types, operators, input/output, method (user defined and API), single-subscripted arrays and strings, and class libraries. Extensive hands-on program development creating stand-alone applications. (3 cr. hrs.) (Fall, Spring). Prerequisite: CSCS 1240. Lecture / Laboratory. Shelf Life Alert.

CSCS 2430 Digital Logic
Logic gates, flip-flops, circuit diagrams of different types of registers and counters, decoders, encoders, multiplexers, demultiplexers, adders, and characteristics of Asynchronous and Synchronous transmission. (3 cr. hrs.) (ASN). Prerequisites: CSCS 1240 and eligible to take college-level math. Shelf Life Alert.

CSCS 2650 Computer Organization
Computer architecture and assembly language programming methods. Includes addressing, binary and computer arithmetic, boolean logic, bus structures, control and data flow, data representation, debugging, input/ output, instruction cycle, instruction sets, interrupts, linking, machine language, memory, processors, registers, storage, subroutines, and translation. Connection to compilers and operating systems discussed. (4 cr. hrs.) (Spring). Prerequisite: CSCS 1320 or CSCS 2420. Lecture / Laboratory. Shelf Life Alert.
CSCS 2700 Data Communications
Networks and communication techniques with computers or peripheral devices. Includes communications links and equipment, coding of information, line controls, protocols, multiplexing, socket programming, error correction algorithms, data transmission, and local area networks. Emphasis on modern internet protocols such as TCP/IP, including the application, transport, network, and link layers. (3 cr. hrs.) (Fall).
Prerequisite: CSIT 1200 and either CSCS 1320 or CSCS 2420. Shelf Life Alert.

CSCS 2730 Systems Programming
Systems programming for portable operating system implementations. File and Device I/O, timers, process management, sockets, threads, file systems, terminals, signals, pipes, semaphores. Focus on concurrency and effective resource utilization. (3 cr. hrs.) (Spring). Prerequisite: CSCS 1320 and CSCS1730. Shelf Life Alert.

CSCS 2850 Projects
Independent or group project(s) under the instructor’s guidance. Projects will advance the student’s knowledge and competence in computer science and related areas. The student develops a statement of goals strategies, maintains a weekly log, and prepares written and oral reports. (3 cr. hrs.) (ASN). Prerequisite: Instructor consent. Shelf Life Alert.

CSIT Computer Information Technology
Division of STEM
Faculty: DJ Dates, Joseph DeLeone, Matthew Haas, Elmarine Jimenez, Joseph Oppenheim
Note: Shelf Life Alert! Course may not be used for any computer program if more than 5 years have passed since course was taken.

CSIT 1320 HPC Fundamentals
Introduces students to current computational trends and interdisciplinary collaboration. Survey of applications requiring visualization, data and time intensive processing, concurrency. Case Studies drawn from current problems in the computing, business, scientific, and mathematical disciplines. Students will be exposed to design, implementation, and operational aspects of a High Performance Computing system, as well as skills in resource utilization, system performance optimization, and general problem solving techniques. (3 cr. hrs.) (Spring). Prerequisites: CSCS 1730. Shelf Life Alert.

CSIT 2000 Mobile App Development
Mobile application development techniques. Skills necessary to design, build, and deploy professional mobile applications. Topics include exploration of mobile environment, tools used to develop mobile applications design considerations and techniques, common libraries utilized, and application testing. (3 cr. hrs.) (Spring). Prerequisite: CSCS2420, CSCS1320, CSCS2210, CSST1600, or ENGR1050. Lecture/Laboratory.

CSIT 2044 HPC Experience I
In-lab seminar/work experience in a High-Performance Computing environment. Student is assigned an administrative role(s) within the lab and learns the basics of on-site/remote maintenance, monitoring, support, documentation, updating and investigating possible functionality. The student functions as if they were in a beginning staff system administration position. (2 cr. hrs.) (Fall). Prerequisites: CSIT 1320 or CSCS 1730. Cannot be taken concurrently with CSIT 2048. Shelf Life Alert.

CSIT 2048 HPC Experience II
Continuation of in-lab seminar/work experience in a High-Performance Computing environment. Student resumes administrative role(s) within the lab and is responsible for on-site/remote maintenance, monitoring, support, more detailed documentation, updating, and investigating/implementing possible innovations/functionality. Additionally, the student may assist in mentoring/training an incoming student to assume the responsibilities of the role. The student functions as if they were in an intermediate system administration position. (2 cr. hrs.) (Spring). Prerequisites: CSIT 1320, CSCS1730, and CSIT 2044. Lecture/Laboratory.

CSIT 2310 Structured & Object-Oriented Systems Analysis and Design
Techniques for processing data through computers. Input, output, and programming systems. Skills required in system design, the allied areas of form management, and records retention. Examination of flow charting and data flow diagrams for paperwork flow, unit record equipment, and computer systems. Forms and record design. Practical applications are developed, displayed and presented for integrated procedures and weighed from the viewpoint of economy, efficiency, and expansion. (3 cr. hrs.) (Spring).
Prerequisite: CSCS 1320, CSCS 2420, or CSCS 2210. A student presentation is required. Shelf Life Alert.

CSIT 2400 Database System
Creating, modifying, and using a database and composing an original database system. Conceptual database design, relational database system, relational query language, programming, menu-driven systems, screen I/O and prompting. Database terminology. (3 cr. hrs.) (Fall). Prerequisite: CSCS 1240. Lecture/Laboratory. Shelf Life Alert.

CSNS Computer Science Network Security
Division of STEM
Faculty: DJ Dates, Joseph DeLeone, Matthew Haas, Joseph Oppenheim
Note: Shelf Life Alert! Course may not be used for any computer program if more than 5 years have passed since course was taken.

CSNS 1610 Fundamentals of Information Security
An introduction to the fundamental issues, concepts and tools common to areas of security. Topics include who are the attackers, their motivations, and risk tolerance. Essential tools will be introduced covering the areas of anti-virus, monitoring, virtual machines, account control, and access rights management. Security models such as access control lists, role-based access control, Bell-La Padula, and others will be studied. Concept areas such as confidentiality, integrity, availability and privacy will be studied. (4 cr. hrs.) (Lecture/Laboratory) (Spring). Prerequisite: CSNT 1200 and either CRST 1030 or CSCS 1730.

CSNS 2620 Fundamentals of Information Assurance
An introduction to information assurance topics such as strategies that organizations utilize to keep data and infrastructure secure, risk assessments and mitigation, and laws and policies relating to computer and network security. The course is designed to explore the broad spectrum of information management and protection. Special attention will be paid to basic principles of security, ethics, and investigation. A review and more in-depth look at certain security topics, like cryptography and application security, will also be presented. (Lecture/Lab) (Spring). Prerequisite: have taken or be taking CSNS 1610.

CSNT Computer Network Technology
Division of STEM
Faculty: DJ Dates, Joseph DeLeone, Matthew Haas, Elmarine Jimenez, Joseph Oppenheim
Note: Shelf Life Alert! Course may not be used for any computer program if more than 5 years have passed since course was taken.

CSNT 1200 Introduction to Networks
A theoretical overview of networks. Introduction to the OSI model, communications media, various network equipment, data transmission, protocols, topologies, architectures, Local area networks, Wide area networks, Routing and Routing protocols, IP addressing and structured cabling. (4 cr. hrs.) (Fall/Spring). Prerequisite: Ready to take a college-level composition course and have no developmental reading and mathematics requirements. Lecture/Laboratory.
CSNT 1500  Routing and Switching Essentials
The architecture, components, and operations of routers and switches in a small network. Configuring a router and a switch for basic functionality, troubleshooting routers and switches and resolving common issues with RIPv1, RIPv2, single area and multiple-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. (4 cr. hrs.) (Spring). Prerequisite: CSNT 1200.

CSNT 2200  Network Software
Installation and use of various system and application software packages within a networked environment. The study and understanding of these packages and their relationship to network configuration and function ability. (4 cr. hrs.) (Fall). Prerequisite: CSNT 1200. Lecture/Laboratory.

CSNT 2400  Scaling Networks
Implementation and configuration of a Local Area Network. Students will use the knowledge that they acquire to design, implement and configure a LAN. Topics include Switching concepts and LAN design, Switch configuration, STP, Virtual LAN and VLAN trunking protocol. (4 cr. hrs.) (Fall). Prerequisite: CSNT 1200. Lecture/Laboratory. Fee $50.

CSNT 2700  Cloud System Administration
This course prepares the student to have the knowledge and skills required to understand standard cloud methodologies; to implement, maintain and deliver cloud technologies (e.g. network, storage, and virtualization technologies), and to understand aspects of IT security and use industry best practices related to cloud implementations. It is aligned to the CompTIA Cloud + Exam which is internationally recognized and vendor neutral but incorporates practical laboratory in Microsoft Azure, Amazon AWS and Office 365. (4 cr. hrs.) (Fall). Prerequisite: CSNT 1200.

CSNT 2800  Connecting Networks
Creating and evaluating various network systems. Topics include analysis, design, development, implementation, maintenance and evaluation of different kinds of network systems. The focus will be on various WAN technologies and protocols such as Frame Relay, PPP, HDLC, VPN. Students will also become familiar with creating Packet filters for security on routers using Access Control Lists (ACLs) (3 cr. hrs.) (Spring). Prerequisites: CSNT 1200. Lecture/Laboratory.

CSST  Computer Service Technology
Division of STEM
Faculty: DJ Dates, Joseph DeLeone, Matthew Haas, Elmarine Jimenez, Joseph Oppenheim
Note: Shelf Life Alert! Course may not be used for any computer program if more than 5 years have passed since course was taken.

CSST 1091  Introduction to Microcomputer Graphics
Introduction to presentation software. Includes design, transitions, animation effects and inserting charts and other objects. Methods of adding multimedia, manipulating simple graphics and timing the delivery of presentations will also be covered. (1 cr. hr.) (Fall, Spring). Lecture/Laboratory. Shelf Life Alert.

CSST 1600  Object Oriented Programming – Non-Computer Major
An introduction for students with little or no programming background. Topics include the Object Oriented environments, properties, controls, and programming procedures and structures. (3 cr. hrs.) (Fall, Spring). Lecture/Laboratory. Shelf Life Alert.

CSWT  Computer Web Technology
Division of STEM
Faculty: DJ Dates, Joseph DeLeone, Matthew Haas, Joseph Oppenheim
Note: Shelf Life Alert! Course may not be used for any computer program if more than 5 years have passed since course was taken.

CSWT 1200  Website Development Fundamentals
Web page development techniques using HTML, XHTML, and web site authoring software. Presents skills necessary to build, deploy, and manage professional web pages. Topics include basic tags and more advanced features while emphasizing accessibility, compatibility, security, and emerging Internet trends. (3 cr. hrs.) (Fall, Spring). Prerequisite: Ready to take a college-level composition course and have no developmental mathematics requirements. Shelf Life Alert.

CSWT 2610  Web Programming & Interactivity
Involves hands-on experience with common uses of JavaScript in commercial web sites, including but not limited to: form validation, web applications, and Dynamic HTML. Focus is on the DOM (Document Object Model), and also covers the evolving standards with XML and the integration of XML Style sheets with JavaScript to create robust, complex web applications. (3 cr. hrs.) (Fall). Prerequisites: CSWT 1200. Lecture/Laboratory. Shelf Life Alert.

CSWT 2620  Web Application Development
Database connectivity and other areas related to the construction of commerce-related database driven web sites are the primary focus. Behind the scenes aspects of web programming. Hands-on experience with today’s popular programming languages on the web, emphasis on the HTML-embedded scripting languages PHP (Perl-like in syntax) and ASP (VBScript) Mod-Perl, JSP, Coldfusion, and other common languages also discussed. (3 cr. hrs.) (Spring). Prerequisite: CSCI 1240. Lecture/Laboratory.

ECON  Economics
Division of Professional Studies
Faculty: Deborah Dunbar, Robert Kephart II
Note: Economics is a Social Science that also meets certain business program requirements.

ECON 1000  Elements of Economics
Structure and functioning of the U.S. economy. National economic goals, the market system, price determination, taxation and government spending, business cycles, fiscal and monetary policy, international trade. Understanding of current economic events and issues. (3 cr. hrs.) (Fall, Spring).

ECON 2001  Principles of Economics – Macro
U.S. macro-economic goals, the American market system, price determination, distribution of income, government taxation and spending, national income accounting, fiscal policy, and monetary policy. (3 cr. hrs.) (Fall, Spring). Prerequisites: MATH 1110 or higher and eligible to enroll in ENGL 1010. Upper-level course. Meets SUNY General Education requirement in Social Sciences.

ECON 2002  Principles of Economics – Micro
Elasticity of supply and demand, utility theory, production cost analysis, profit maximization, monopoly and government regulation, labor organization, international trade and finance, economics of growth, resource depletion, and pollution. (3 cr. hrs.) (Fall, Spring). Prerequisites: MATH 110 or higher and eligible to enroll in ENGL 1010. Upper-level course.
EDUC Education
Division of Professional Studies
Faculty: Julie Dick, Susan Hoobler

EDUC 1010 Foundations of Education
The aims of public education in our society; philosophical, historical, economic, political and social bases of our educational system. Current trends in education; popular myths about the teaching profession; roles, responsibilities, problems and concerns of teachers. (3 cr. hrs.) (Fall, Spring). Field observation. Prerequisite: Eligible for ENGL 1010.

EDUC 1560 Special Education and the Inclusive Classroom
Examines the nature of various handicapping conditions and describes education programs and strategies for serving exceptional children and adults. (3 cr. hrs.) (ASN) 15 hours of field observation are required. Prerequisite: eligible for ENGL 1010.

EDUC 1960 Fieldwork & Seminar in Education
Entry-level field course enables pre-service teachers to work with learners in today’s classroom. By interacting individually with students, pre-service teachers will observe and analyze basic patterns of teaching and learning. (3 cr. hrs.) (Fall, Spring). Prerequisite: EDUC 1010 and EDUC 2040 or EDUC 1560 with a grade of C or higher. Fieldwork (100 hours)/seminar.

EDUC 2040 Teaching in Diverse Classroom
Intended for prospective teachers of grades Pre-K through 12, focus is on the pedagogical needs of diverse student populations. Provides a background in special education, bilingualism, multiculturalism and diversity, and explores instructional strategies appropriate to the needs of all students. (3 cr. hrs.) (Fall, Spring). Field observation required. Prerequisite: EDUC 1010 or ECED 1110.

EDUC 2050 Schools and Society
Examines the historical, cultural, philosophical, ethical, and practical foundations influencing education in the United States. The significance of social differences in regard to class, culture, race/ethnicity, gender, sexual orientation, and religion will be examined. Controversial educational issues will be explored and a personal philosophy of education will be formulated. (3 cr. hrs.) (ASN). Prerequisite: EDUC 1010, EDUC 2040 and ENGL 1010. Writing in content area. Upper-level course. Intended for education students. 15 hours field observation.

ELEC Electrical Technology
Division of STEM
Faculty: Jonathan Balke, Bradley Cole

ELEC 1010 Electricity
Electrical quantities and their measurement, series and parallel DC circuits, electrical power, AC circuits, magnetism and basic instrumentation. Basic circuit analysis theorems. (4 cr. hrs.) (Fall, Spring). Prerequisites: Be taking or have taken ENGL 1010 and MATH 1230. Lecture/Laboratory. Lab fee.

ELEC 1500 Solid State Electronics
Theory of operation, design, analysis, and circuit configurations of P-N junction diode, bridge rectifiers, zener diodes, LED’s, bipolar transistors, optocouplers, single-stage and multi-stage amplifiers. The use of circuit analysis software for schematic drawing and simulation will be included. (4 cr. hrs.) (Spring). Prerequisite: ELEC 1010. Lecture/ Laboratory. Lab fee.

ELEC 1510 Digital Electronics
Digital circuits and their application. Binary and hexadecimal number systems and codes, basic logic gates, combinational and sequential logic circuits, Boolean algebra, arithmetic circuits, decoders, encoders multiplexers, flip flops and counters. Lab work includes design of circuits utilizing integrated circuits and FPGA hardware/software. (4 cr. hrs.) (Spring). Prerequisite: ELEC 1010. Lecture/Laboratory. Lab fee.

ELEC 1580 Digital and Analog Electronics
Introduction to digital and analog circuitry. Topics will include binary and hexadecimal number systems, various circuits using digital logic gates, diode and transistor theory, discrete and operational amplifier circuits. (4 cr. hrs.) (ASN) Prerequisite: ELEC 1010. Lecture/Laboratory. Lab fee.

ELEC 2000 Electronic Construction
Construction of an individual project involving bread boarding, soldering, terminal crimping, heat shrinking, wiring, and mounting of external jacks, controls and switches. CAD-generated printed circuit board artwork design, developing, etching and drilling included. (1 cr. hr.) (Fall). Corequisite: ELEC 2010. Laboratory. Lab fee. Students will be expected to purchase required tools and parts for the project.

ELEC 2010 Linear Electronics
Theory of operation, design, analysis, and circuit configurations of operational amplifiers, voltage comparators, waveform generators, 555 timers, power supply, and three-terminal regulator circuits. The use of circuit analysis software for schematic drawing and simulation will be included. (4 cr. hrs.) (Fall). Prerequisite: ELEC 1500. Lecture/Laboratory. Lab fee.

ELEC 2020 Industrial Electronics
Analysis and design of automatic control systems using industrial programmable logic controllers and ladder logic, using Allen Bradley SLC500 PLCs. Other topics include industrial relays, switches, sensors, solenoids, and thermal overload protection schemes. The use of software for simulation of industrial system automation will be included. (4 cr. hrs.) (Spring). Prerequisites: ELEC 1500 and 1510; or ELEC 1580. Lecture/Laboratory. Lab fee.

ELEC 2030 Microprocessors
Study of a microprocessor-based system and microcontroller. Includes general architecture, assembly language instruction set and programming/simulation, assembler directives, address decoders, registers, I/O ports, memory mapping, busses, addressing modes, arithmetic/logic operations, status flags, branching, looping, time delays, counters, macros and subroutines. (4 cr. hrs.) (Fall). Prerequisite: ELEC 1510. Lecture/Laboratory. Lab fee.

ELEC 2050 Senior Project
An independent project including the various stages from conception to design and layout, fabrication, testing, modification, and final reporting. Project is of the student’s choosing, subject to approval of the instructor. (2 cr. hrs.) (Spring). Prerequisites: ELEC 2000, 2010, 2030. Laboratory/ Independent project. Lab fee. Students will be expected to purchase required tools and parts for the project.

ELEC 2070 Industrial Data Acquisition
Introduces basic process instrumentation and control systems, analog-to digital and digital-to-analog conversion with emphasis on computer control interfacing to process. Use of LabView data acquisition software to acquire and analyze data. (4 cr. hrs.) (Spring). Prerequisite: Concurrent enrollment in MATH 1230 or math placement above MATH 1230. Lecture/Laboratory. Lab fee.

ENGL English
Division of Humanities and Social Sciences
Faculty: Christine Atkins, Dann Coble, Edward Dougherty, Emma Draper-Reich, Marie Hannah-Mandell, Ryan Hersha, Vincent Lisella
Note: All students begin their English courses according to their writing ability as determined by assessment and evaluation of prior course work.

ENGL 0980 Reasoning, Reading & Writing for Academic Studies
Integrates reading, critical thinking and writing assignments aimed at improving students’ literacy skills for success in college studies. Students apply reading strategies to challenging texts, using previewing, annotation,
guide questions and discussion to understand key points. Major projects require students to develop paragraph/essay ideas through reading comprehension activities, discussion, and other prewriting strategies, and culminating with essays responding to and integrating source material with no serious errors. Students who successfully complete this course should enroll in ENGL 0999 and ENGL 1010. (5 equivalent credits.) (Fall, Spring). Prerequisite: Placement by assessment. Grading: Pass/Fail. Does not fulfill degree or program requirements. Lecture/Laboratory.

ENGL 0999 Applied Reading and Writing Strategies Integrates reading, critical thinking and writing to improve literacy skills for success in College Composition I. Students apply reading strategies to challenging texts, using previewing, annotation, guide questions and discussion. Students will apply writing strategies to produce essays for the ENGL 1010 companion course. Emphasis on selecting and integrating source material with effective critical responses. Rhetorical strategies and strategic editing will be reviewed to improve sentence structure and correct errors. (2 eq. crs.) (Fall, Spring). Prerequisite: ENGL 0980, placement, or Departmental recommendation. Co-requisite: ENGL 1010. Grading: Pass/Fail. Does not fulfill degree or program requirements. Lecture/Laboratory.

ENGL 1000 College Composition I Essay writing designed to sharpen the student’s perceptions of the world through the study and use of non-fiction writings and to facilitate communications with correctness, clarity, unity, organization, and depth. Assignments include expository writing, argumentation, and research techniques. (3 cr. hrs.) (Fall, Spring). Prerequisite: Placement, ENGL 0980, or concurrent enrollment in ENGL 0999. Meets SUNY General Education requirement in Basic Communication. Writing Process.

ENGL 1010 College Composition II Essay writing course designed to advance critical, analytical, and writing abilities begun in ENGL 1010. Literary analysis essays and interpretation of works of fiction, poetry, and drama. (3 cr. hrs.) (Fall, Spring). Prerequisite: ENGL 1010. Writing Process. Meets SUNY General Education requirement in Humanities.

ENGL 1410 Police Report Writing Assists students in developing a knowledge of the conventions of written and spoken English in a variety of writing situations within the context of police work, including incident reports, accusatory instruments, arrest and court documents, accident reports, DWI documents, mental health and domestic violence reports. (2 cr. hrs.) (Spring). Prerequisite: ENGL 1010. Writing Process. Meets SUNY General Education requirement in Humanities.

ENGL 1501 Technical Report Writing I Introduction to technical, in-service writing such as status, trip, trouble reports and memorandum. May be taken in conjunction with a scientific or technical project on campus. (1 cr. hr.) (ASN). Prerequisite: ENGL 1010. Cannot be used as a humanities or liberal arts and sciences elective. Writing Process if taken with ENGL 1502.

ENGL 1502 Technical Report Writing II Introduction to technical, formal writing such as manuals, proposals and reports for presentation. May be taken in conjunction with a scientific or technical project on campus. (2 cr. hrs.) (ASN). Prerequisite: ENGL 1501. Cannot be used as a humanities or liberal arts and sciences elective. Writing Process if taken with ENGL 1501.

ENGL 1510 Honors College Composition I Honors course in essay writing designed to sharpen the student’s perceptions of the world through the study and use of non-fiction writings and to facilitate communications with correctness, clarity, unity, organization, and depth. Assignments include expository writing, argumentation, and research techniques. (3 cr. hrs.) (ASN). Prerequisite: Placement or ENGL 0980 and departmental permission. Must be Honors eligible. An alternative degree requirement for students in the Honors Program. Cannot earn credit for this course or ENGL 1010. Writing Process. Meets SUNY General Education requirement in Basic Communication.

ENGL 1520 Honors College Composition II Honors course in writing course designed to advance the critical and analytical thinking begun in ENGL 1010. Literary analysis essays on works of fiction, drama and poetry. Entry limited to students who meet qualifications for Honors coursework. (3 cr. hrs.). This is an alternate degree requirement for students in the Honors Program. Cannot earn credit for this course and ENGL 1020. Prerequisite: ENGL 1010. Meets SUNY General Education requirement in Basic Communication.

ENGL 2010 American Literature I Important writings and American culture from the early 1600’s through 19th century Romanticism. (3 cr. hrs.) (ASN) Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

ENGL 2020 American Literature II Important writings and American culture from the mid-19th century to the present. (3 cr. hrs.). Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

ENGL 2030 Children’s Literature A study of the different types of literature created for children: picture books, young adult novels, poetry, folklore, fairy tales, fantasy, historical fiction, contemporary realistic fiction, biography and non-fiction. Discussion of issues in the field, book selection, etc. through reading, discussion, papers, and projects. (3 cr. hrs.) (Fall, Spring). Prerequisite: ENGL 1020. Writing in content area. Upper-level course.

ENGL 2040 Fantasy and Science Fiction An historical approach to the genres of science fiction and fantasy through a study of acknowledged masterpieces and contemporary authors. Adaptations and works in other media may also be examined. (3 cr. hrs.) (Spring). Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

ENGL 2060 The Bible as Literature Secular discussion of readings from the Old and/or New Testaments. Literary qualities of the selected text (genre, philosophical motif and aesthetics) as related to the time, place and conditions of composition. May include historical, textual, reductive and form criticism. (3 cr. hrs.) (Fall). Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

ENGL 2160 The Short Story The short story as a literary form; study of significant writers with emphasis on recent works. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

ENGL 2170 Modern Drama Drama in literary form; study of significant playwrights with special attention to recent works. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

ENGL 2180 Modern Novel The novel as a literary form; significant authors with special attention to recent works. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.
ENGL 2190   Modern Poetry
Poetry as a literary form and as a reflection of modern trends in human thought and human experience. Special attention is given to the 20th and 21st century. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

ENGL 2220   Major African-American Writers
Cultural influence of literature by major African-American writers with special attention to themes, language, and style. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Writing intensive. Meets SUNY General Education requirement in Humanities. Upper-level course.

ENGL 2310   English Literature I
Major writers and their works in England from the beginning of the Anglo Saxon era to the end of the Age of Reason. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

ENGL 2320   English Literature II
Major writers and their works in Great Britain and Ireland from the beginning of the Romantic Movement to the present. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

ENGL 2330   Shakespeare
The major plays of Shakespeare with consideration of the Elizabethan theater and culture. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

ENGL 2410   World Literature I
Masterworks of Western literature in translation from ancient times through the Renaissance. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

ENGL 2420   World Literature II
Masterworks of Western literature in translation from the beginning of the Age of Reason to the present. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

ENGL 2480   Creative Writing – Fiction & Drama
A writing course to develop facility in creative writing. Original works will be evaluated by the class and Instructor. Additional outside reading may be assigned. Emphasis will be on creative writing facility and critical abilities. Focus is on short stories and plays. (3 cr. hrs.) (Fall). Prerequisite: ENGL 1020. Writing process. Upper-level course. Meets SUNY General Education requirements in ‘The Art.’

ENGL 2490   Creative Writing – Poetry
A writing course to develop talent in creative writing. Focus is on poetry. Original works evaluated by the class and instructor. Emphasis will be on creative writing talents and critical abilities. Additional outside reading may be assigned. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020.

ENGL 2579   Rhetoric and Propaganda in Contemporary Media
An analysis class to help students better understand rhetorical principles in everyday use. Several rhetorical theories, both classical and contemporary, will be explored through the lens of media and politics. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020.

ENGL 2601   Film: An Introduction Module I
Introduces film, its terms and techniques. (1 cr. hr.) (ASN). Prerequisite: ENGL 1020. Writing in content area. Upper-level course.

ENGL 2602   Film: An Introduction Module II
Focuses on types of film. (1 cr. hr.) (ASN). Prerequisite: ENGL 1020. Writing in content area. Upper-level course.

ENGL 2603   Film: An Introduction Module III
Examines the creative art and technical science of directing and editing. (1 cr. hr.) (ASN). Prerequisite: ENGL 1020. Writing in content area. Upper-level course.

ENGL 2661   Journalism – Module I
Includes writing leads and basic news story organization. (1 cr. hr.) (ASN). Prerequisite: ENGL 1010. Writing process if all three modules are taken. Upper-level course.

ENGL 2662   Journalism – Module II
Includes interviewing and basic news stories. (1 cr. hr.) (ASN). Prerequisite: ENGL 2661. Writing process if all three modules are taken. Upper-level course.

ENGL 2663   Journalism – Module III
Includes more advanced news stories and ethics. (1 cr. hr.) (ASN). Prerequisite: ENGL 2661. Writing process if all three modules are taken. Upper-level course.

ENGL 2800   Special Topics in Literature
An in depth examination of literature from a particular theme/genre, not covered by existing courses. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Writing Intensive. Upper-level course.

ENGR   Engineering
Division of STEM
Faculty: Jonathan Balke, John Longwell

ENGR 1010   Engineering Orientation
Aspects of engineering study and the engineering profession. Methods of solution of engineering problems. (2 cr. hrs.) (Fall). Prerequisite: Three years of high school math including intermediate algebra and trigonometry or placement into MATH 1220, 1240, or higher.

ENGR 1030   Graphics for Engineers
Techniques and practices of engineering graphics for communication and interpretation of engineering design intent through the use of the three-dimensional parametric modeling program (SolidWorks) and international standard governing geometric dimensioning and tolerancing (ASME/ANSI Y14.5 and ISO) Engineering freehand sketching and graphically solving problems including pictorial and multiview drawings, geometric constructions, plane and descriptive geometry, sectioning conventions and coordinate dimensioning and tolerancing. (3 cr. hrs.) (ASN). Prerequisite: MATH 1412 or higher. Lecture / Laboratory. Lab fee.

ENGR 1050   C for Engineers
An introduction to C programming and debugging procedures. The programming assignments will incorporate input/output techniques, iteration, decision making, arrays and sub programs. Engineering applications will be emphasized. (3 cr. hrs.) (ASN). Prerequisite: MATH 1412 or higher. Lecture / Laboratory.

ENGR 2110   Engineering Mechanics I
Statics and Mechanics of Materials. A vector approach to study the equilibrium of particles and rigid bodies, force systems, friction, properties of areas and analysis of structures. Fundamentals of stress and strain under axial loading, torsion, bending, transverse loading, and combined load. (4 cr. hrs.) (Fall). Prerequisite: PHYS 1820.
ENGR 2120  Engineering Mechanics II

ENGR 2150  Theory & Properties of Material
Structure of crystalline solids, imperfections, diffusion, mechanical properties of metals, strengthening mechanisms, failure analysis phase/transition diagrams thermal processing, metal alloys. Research paper/presentation. Lab demonstrations for hardness and mechanical test methods. (3 cr. hrs.) (Fall). Prerequisites: PHYS 1820 and CHEM 1510.

ENGR 2180  Engineering Circuit Analysis
Analysis of circuits using resistors, capacitors, inductors, independent and dependent energy sources, and operational amplifiers. Topics include Kirchhoff’s Laws, voltage and current division, nodal and mesh analysis, source transformations, superposition, linearity, Thevenin’s and Norton’s Theorems, responses of RL, RC, and RLC circuits and sinusoidal analysis using phasors. (3 cr. hrs.) (Spring). Prerequisite: PHYS 2830. Must be taken along with MATH 2620 and PHYS 2840.

ENGR 2200  Thermodynamics I
The first half of the material of classical thermodynamics. Introductory definitions and concepts, properties of a pure substance, use of steamtables, study of work and heat, the first and second laws of thermodynamics, and the topic of entropy. (4 cr. hrs.) (ASN). Prerequisite: MATH 2610, MATH 2620, and PHYS 2840.

ERTH  Earth Science
Division of STEM

ERTH 1010  Earth Science
Geology, oceanography, and metrology, selected for their relevance to non-science majors. Field trips to study local geology, map interpretation, and elementary weather forecasting. (3 cr. hrs.) (Fall). Prerequisite: Placement into college level math. Eligible to take ENGL 1101. It is recommended that this course not be taken for credit after successfully completing any GEOL course. Cannot receive credit for both ERTH 1010 and SCIN 1110. Lecture/laboratory. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

FREN  French
Division of Humanities and Social Sciences
Faculty: Michael Beykirch, Sandra Turner-Vicioso

FREN 1010  Elementary French Conversation and Structure I
Vocabulary and expressions for listening comprehension and speaking ability. Reading and writing introduced. For students with little or no background in the language. (4 cr. hrs.) (Fall). Not Intended for students with high school Regents credit or equivalent in French. Lecture/Recitation/Laboratory. Meets SUNY General Education requirement in Foreign Language.

FREN 1020  Elementary French Conversation and Structure II
Additional practice in conversation combined with development of reading and writing skills and a systematic study of French grammar. (4 cr. hrs.) (Fall). Prerequisite: FREN 1010 or two years of high school French. Lecture / Recitation / Laboratory. Meets SUNY General Education requirement in Foreign Languages.

FREN 2010  Intermediate French
Development of greater facility in reading, writing, speaking, and understanding the language through a systematic review of its structures. Representative readings introduce the civilization of France. (4 cr. hrs.) (Fall). Prerequisite: FREN 1020 or three years of Regents high school French. Lecture / Recitation / Laboratory. Upper-level course. Meets SUNY General Education requirement in Foreign Language.

FREN 2020  Composition and Conversation
A thorough analysis of the language. Intensive discussion of grammar, usage, style, and vocabulary, enhancing expression through composition, oral reports and more informed class discussions and conversations. (4 cr. hrs.) (ASN). Prerequisites: FREN 2010 or 4 years of high school French. Lecture / Recitation / Laboratory. Essential for French majors who plan to take upper-level language and literature studies. Upper-level course.

FREN 2310  Brief Introduction to French Literature
Advanced study with an introduction to serious reading of some of the great writers of literature. Develops the ability to exchange ideas through writing and discussion in the foreign language. (3 cr. hrs.) (ASN). Prerequisites: ENGL 1010, FREN 2020 Also fulfills 2000-level communications requirement. Upper-level course. Meets SUNY General Education requirements in Foreign Language.

FYEX  First Year Experience
Division of Humanities and Social Sciences

FYEX 1000  First Year Experience
Designed to assist first-year students in adjusting to the college environment as well as becoming familiar with strategies for success. A general orientation to the resources of the college, essential academic success skills to better understand the learning process, and career exploration will be covered. (3 cr. hr.) (Fall) Lectures/Discussions/Activities

GAME  Game Design and Development
Division of STEM
Faculty: DJ Dates

GAME 1010  Fundamentals of Game Design
An introduction and examination of game design processes, social implications, narrative, mechanics, dynamic interactions, aesthetics, and usability of game design. The course will discuss many types of games, but the primary focus will be on the kinds of decisions made by video game designers as students learn the processes of game design from a starting concept through development and prototyping on to completion and play testing. (3 cr. hrs.) (ASN). Prerequisite: Eligible to take a college-level composition course and completion of all developmental mathematics requirements.

GEOG  Geography
Division of Humanities and Social Sciences

GEOG 1010  World Geography
Examination of the kinds of physical and cultural features encountered on this planet, their location and significance. Course is organized on an economic and political basis considering developed and developing regions. Extensive map work required. (3 cr. hrs.) (Fall, Spring).

GEOG 1210  Introduction to Geographical Information Systems (GIS)
Geographic Information Systems covers the underlying geographic concepts and provides computer lab tutorials utilizing GIS mapping software as it applies to case studies in social and natural sciences. Emphasis is placed on the development of investigation using visual evidence, spatial thinking, reasoning with quantities, and collaboration. (3 cr. hrs.) (ASN). Prerequisites: MATH 1225 or MATH1230 or higher or placement in a higher level mathematics and CSST1051 or CSST 1101 or TECH1120 or BUSN 1100. Lecture / laboratory. Fee $10. Meets SUNY General Education requirements in Social Sciences.
GEOL  Geology  
Division of STEM  
Faculty: Deborah Dann

GEOL 1510  Physical Geology  
Geologic processes on and beneath the earth’s crust. Topics include minerals and rocks, igneous processes, landscape development, earthquakes, plate tectonics, oceanography, and map interpretation. (4 cr. hrs.) (Fall)  
Prerequisite: Placement into college level math. Eligible to take ENGL 1010.  
“C” or higher in college Earth Science or “C” or higher in any college lab science course. Lecture / Laboratory / Field work. Lab fee. Writing in content area. Meets SUNY General Education requirement in Natural Sciences. This course is designed for science majors.

GEOL 1520  Historical Geology  
Physical history of earth and its relation to orderly development of life. The reconstruction of past events, fossil identification, environmental geology, and the physical and biological history of the earth. This course is designed for science majors. (4 cr. hrs.) (Fall)  
Prerequisite: Placement into college level math. Eligible to take ENGL 1010.  
“C” or higher in college Earth Science or “C” or higher in any college lab science course. Lecture / Laboratory / Field work. Lab fee. Writing in content area. Meets General Education requirement in Natural Sciences.

GEOL 1530  Environmental Geology  
Geologic materials and processes basic to understanding today’s environmental problems. Resources, pollution, waste disposal, land use planning, and geologic hazards such as volcanoes, earthquakes, flooding, landslides. This course is designed for science majors (4 cr. hrs.) (Spring)  
Prerequisite: Placement into college level math. Eligible to take ENGL 1010.  
“C” or higher in college Earth Science or “C” or higher in any college lab science course. Lecture / Laboratory / Field work. Lab fee. Writing in content area. Meets SUNY General Education requirement in Natural Sciences.

GERM  German  
Division of Humanities and Social Sciences  
Faculty: Michael Beykirch

GERM 1010  Elementary German Conversation and Structure I  
Everyday German vocabulary and expressions. Emphasis on listening comprehension and speaking ability. Reading and writing introduced. For students with little or no background in the language. (4 cr. hrs.) (Fall)  
Not intended for students with high school Regents credit or equivalent in German. Lecture / Recitation / Laboratory. Meets SUNY General Education requirement in Foreign Language.

GERM 1020  Elementary German Conversation and Structure II  
Additional practice in conversation, development of reading and writing skills, a systematic study of German grammar. (4 cr. hrs.) (Fall)  
Prerequisite: GERM 1010 or two years of high school German. Lecture / Recitation / Laboratory. Meets SUNY General Education requirement in Foreign Language.

GERM 2010  Intermediate German  
Development of greater facility in reading, writing, speaking, and understanding the language through a systematic review of its structures. Representative readings. (4 cr. hrs.) (Fall)  
Prerequisite: GERM 1020 or equivalent of three years of Regents high school German. Meets SUNY General Education requirement in Foreign Language. Upper-level course.

GERM 2020  Composition and Conversation  
A thorough analysis of the language. Intensive discussion of grammar, usage, style and vocabulary, enhancing expression through composition, oral reports and class discussions and conversations. (4 cr. hrs.) (ASN)  
Prerequisite: GERM 2010 or four years of high school German. Lecture / Recitation / Laboratory. Essential for German majors who plan to take upper-level language and literature studies. Upper-level course. Meets General Education requirement in Foreign Languages.

GERM 2310  Brief Introduction to German Literature  
Advanced study in the language with an introduction to serious readings of some of the great writers of literature. Develops the ability to exchange ideas through writing and discussion in the language. (3 cr. hrs.) (ASN)  
Prerequisite: ENGL 1010 and GERM 2020 or equivalent. Also fulfills 2000-level communications requirement. Upper-level course. Meets CCC General Education requirement in Foreign Languages.

GLSS  Glass  
Division of STEM

GLSS 2010  Introduction to Glass I  
In this class, we will explore the nature of glass and how it is formed. We will study the various thermal, physical, optical, and mechanical properties of glass that are relevant to industrial glass products. Additionally, students will be able to demonstrate an understanding of the underlying structure of various glass families and how those structural differences determine these key physical properties. Labs may be held off campus. (3 cr. hrs.)  
Prerequisites: ENGL 1010 and 1020, MATH 1215 and 1225 or higher, and one year of college science.

GLSS 2020  Introduction to Glass II  
The second semester of glass course deals with manufacturing methods used for production of glass. Focus is placed on raw materials, refractories, processes involved in melting, forming, post-processing and coatings. Special applications such as space shuttle windows, art glass and car windshield will be discussed. Labs may be held off campus. (3 cr. hrs.)  
Prerequisites: GLSS 2010.

GOVT  Government  
Division of Humanities and Social Sciences  

GOVT 1010  American Federal Government  
Theories and practices of American Federal Government with emphasis on the national level. Changing relationships between the branches of the national government, policy formulation, political parties, pressure groups, and the growth of presidential powers. (3 cr. hrs.) (Fall, Spring)  
Prerequisite: Eligible to take ENGL 1010. Meets SUNY General Education requirement in Western Civilization.

GOVT 1020  State and Local Government  
Structure and functions of state legislative, administrative, and judicial organizations; the nature and extent of police powers of the states; state and local revenues and expenditures, problems of municipal government; political parties. (3 cr. hrs.) (ASN)  
Prerequisite: Eligible to take ENGL 1010.

GOVT 2010  Introduction to Political Science  
An introduction to the study of political processes, theories, and structures. Focus is on analysis of political problems on a national and global level. Includes case studies of the political systems of selected nations. (3 cr. hrs.) (ASN). Upper-level course. Pre-requisite: Eligible to take ENGL 1010.

GOVT 2040  Constitution, Law, and Courts  
Development and growth of the Constitution as a result of the judicial role in interpretation. Judicial policy-making, checks upon judicial power, and competing demands of individual liberty and public authority. (3 cr. hrs.) (Fall, Spring)  
Prerequisite: Eligible to take ENGL 1010. Writing in content area. Upper-level course.
GREK Greek
Division of Humanities and Social Sciences
Faculty: Michael Beykirch

GREK 1010 Elementary Classical Greek I
The Greek alphabet, basic vocabulary and grammar; oral reading and translation of brief passages of prose; attention to historical background, cultural connections, and word origins. (3 cr. hrs.) (ASN). Meets SUNY General Education requirement in Foreign Language.

GREK 1020 Elementary Classical Greek II
Continuation of GREK 1010, broadening range of vocabulary and syntax; increased emphasis on reading and translating passages from Classical authors. (3 cr. hrs.) (ASN). Prerequisite: GREK 1010 or one year of Greek study. Meets General Education requirement in Foreign Languages.

GWST Gender and Women’s Studies
Division of Humanities and Social Sciences
Faculty: Christine Atkins

GWST 1010 Introduction to Gender and Women’s Studies
An interdisciplinary introduction to the field of Gender and Women’s Studies. Topics include gender socialization, feminism, intersections of gender with race, ethnicity, sexual orientation, class, body image, globalization, gender and work, masculinities, violence against women and struggles for gender equality and social justice. (3cr. hrs.) Prerequisites: Must be eligible to enroll in English 1010.

HEBR Hebrew
Division of Humanities and Social Sciences
Faculty: Michael Beykirch

HEBR 1010 Elementary Classical (Bible) Hebrew I
Introduction to basic grammar and vocabulary of Hebrew; oral reading and translation of brief passages of prose and Tanakh texts; attention to historical background and cultural connections. (3 cr. hrs.) (ASN). Meets SUNY General Education requirement in Foreign Language.

HEBR 1020 Elementary Classical (Bible) Hebrew II
Continuation of HEBR 1010, broadening range of syntax and vocabulary; increased emphasis on reading and translating passages from the Tanakh. (3 cr. hrs.) (ASN). Prerequisite: HEBR 1010. Meets General Education Requirement in Foreign Languages.

HIST History
Division of Humanities and Social Sciences
Faculty: Robert Cooper, Sky Moss

HIST 1110 American History I
Dreams and concepts brought to the New World and their development into America’s institutions and social fabric. Conflict and consensus among groups, dilemmas facing revolutionaries and reformers, and ways economic, political and social changes have occurred. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to take ENGL 1010. Meets SUNY General Education requirement in American History.

HIST 1120 American History II
End of Civil War to the present. Topics include industrial-urbanization, racism, sexism, the new manifest destiny, political changes, and the growth of a modern nation. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to take ENGL 1010. Meets SUNY General Education requirement in American History.

HIST 2030 History of Medieval Europe
Surveys the period of European history extending from late Roman Antiquity to the early Renaissance. Emphasizes the use of primary sources. Explores the tension within medieval civilization between tradition and change, order and disorder. (3 cr. hrs.) (ASN). Prerequisite: Eligible to take ENGL 1010. Writing in content area. Upper-level course.

HIST 2040 History of Modern Europe
The history of Europe since 1815, beginning with reactionism after the “excesses” of the French Revolution and Napoleon and covering the European alliances and the wars of the 20th century. (3 cr. hrs.) (ASN). Prerequisite: Eligible to take ENGL 1010. Writing in content area. Upper-level history course.

HIST 2050 History of England – Prehistory to 1700
The growth of a people, from fragmented beginnings to the early stages of empire building. Focuses on the evolutionary nature of English history; political, economic and social strengths and weaknesses; the gifts and problems England contributed to western culture. (3 cr. hrs.) (ASN). Prerequisite: Eligible to take ENGL 1010. Writing in content area. Upper level history course.

HIST 2060 History of England – 1700 to present day
The continuing development of the political, social and economic contributions of the British people to western history. Includes the Glorious Revolution to the beginning of the Global Society. (3 cr. hrs.) (ASN). Prerequisite: Eligible to take ENGL 1010. Writing in content area. Upper level history course.

HIST 2090 African American History
Historical background and cultural contributions of African Americans. African heritage, the slave trade, African Americans during the colonial and revolutionary periods, slavery in America, emancipation and reconstruction, the coming of Jim Crow, the struggle for equality, and the revolution in race relations are topics. The contributions of African Americans in literature, art, music, drama, and sports are discussed. (3 cr. hrs.) (ASN). Prerequisite: Eligible for ENGL 1010. Upper-level course.

HIST 2110 Modern Africa
Focuses on basic knowledge and understanding of modern Africa, its people, their history and cultures. Socio-political crises will be examined. Helps to eliminate stereotyping of Bantu African civilizations and exposes students to non-European cultures. Student will become proficient in one specific geographic realm. (3 cr. hrs.) (ASN). Prerequisite: Eligible for ENGL 1010. Upper-level course. Meets SUNY General Education requirements in Other World Civilizations.

HIST 2111 Twentieth Century America
Significant social, economic, and political changes in contemporary American life since 1898. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1010. Upper-level course. Writing in content area.
HIST 2120  Islam and the Middle East
Introduces the historical and religious events of the contemporary Middle East. (3 cr. hrs.) (ASN). Prerequisite: Eligible for ENGL 1010. Upper-level course. Meets SUNY General Education requirement in Other World Civilizations.

HIST 2180  History of Modern China
Chronological and thematic survey of modern Chinese history from the mid-nineteenth century until the present. Topics covered include imperialism, nationalism, communism, industrialization, modernization, regionalism, and globalism. Students will explore the political, economic, and diplomatic features of modern China, as well as the cultural and social influences that have contributed to the rapid evolution and development of modern China. (3 cr. hrs.) (ASN) Prerequisites: ENGL1010. Upper-level course. Writing in content area. Meets SUNY General Education requirements in Other World Civilizations.

HIST 2320  The Civil War
Explores the defining years of 1861-1865 that created the United States of America much in the way we know it today. Emphasizes the political, social, economic, and military aspects of this turbulent time by utilizing letters, diaries, journals, newspapers, and other historical documents and references. Includes antebellum and Reconstruction periods. (3 cr. hrs.) (ASN) Prerequisite: ENGL 1010. Writing in content area. Upper-level course. Meets SUNY General Education requirements in American History.

HIST 2410  Latin American History
Political, social, and economic development of Latin America from pre-Columbian times to the present. (3 cr. hrs.) (ASN). Prerequisite: Eligible for ENGL 1010. Upper-level course. Meets SUNY General Education requirements in Other World Civilizations.

HIST 2500  Special Topics in History
An in-depth examination of historical themes and methods. Topics vary semester to semester. (3 cr. hrs.) Prerequisite: Eligibility to take Honors courses or special permission from the Honors Committee. Writing intensive. Upper-level course. Course may be repeated.

HLTH 1000  Relaxation Techniques for Stress Reduction
An overview of stress and stress management techniques. Individual life stresses and practice of stress management techniques. (1 cr. hr.) (Fall, Spring).

HLTH 1002  Health On-Line
The role of internet technology in health information. Preparation of personal bibliographies of health resources available through online sources. Use of the Internet, Usenet groups, E-mail, and other forms of health-related multimedia. (1 cr. hr.) (ASN).

HLTH 1003  Nutrition for Exercise & Sport
Explores the principles of healthy nutritional practices while developing a personalized dietary plan designed to meet the nutritional demands specific to exercise and sport. (1 cr. hr.) (ASN).

HLTH 1004  Occupational Stress Management
Explores the impact of occupational stress and burnout on health. Assessments, strategies for prevention and treatment of stress-related problems will be addressed. (1 cr. hr.) (ASN).

HLTH 1005  Stress Management for Law Enforcement
Explores the impact of occupational stress and burnout on health and well-being. Assessments, strategies for prevention and treatment of stress-related problems specifically related to law enforcement. (5 cr. hr.) (Spring). The participant must be currently registered as a cadet in the Southern Tier Law Enforcement Academy or with academy permission.

HLTH 1010  Basic Life Support for the Professional Rescuer
Meets the special needs of individuals who are expected to respond in emergency situations. Presents advanced CPR skills and theory. (1cr. hr.) (Fall, Spring). Intend for students in the Nursing program. Fee $20.

HLTH 1011  Basic Life Support – Professional Rescuer Recertification
This course is designed for the student who wishes to update current certification in American Red Cross Basic Life Support for the Professional Rescuer. All students enrolled in this course must have a valid card in Basic Life Support for the Professional Rescuer issued by the Red Cross. (.5 cr. hrs.) (ASN). Fee $20.

HLTH 1100  Responding to Emergencies
Emphasis on prevention of injuries and illness with a focus on personal safety. Using a healthy lifestyle awareness inventory, assesses environment and personal habits to reduce risk of injury and illness. (2 cr. hrs.) (Fall, Spring). Students may not also receive credit for HLTH 1007 or 2007. Fee $20.

HLTH 1201  Human Sexuality
A comprehensive, interdisciplinary course dealing with human sexuality, including the biological systems and physiological functioning that determines sexual behavior and response; the psychological influences on sexuality and sexual development; and the socio-cultural factors affecting the many dimensions of our sexuality. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligibility for ENGL 1010.

HLTH 1202  Perspectives of Drugs and Society
A comprehensive course addressing the use and abuse of drugs in contemporary society, with emphasis on motivation for drug use and abuse; specific types of drugs and their identification; physiological and psychological implications of drug abuse; legal aspects of drug abuse; and treatment of the person with drug dependence. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligibility for ENGL 1010.

HLTH 1203  Perspectives of Alcohol and Society
A comprehensive course addressing the use and abuse of alcohol in contemporary society, with emphasis on motivation for alcohol use and abuse; causes and symptoms of abuse; legal aspects of alcohol abuse; and treatment of the person with alcohol dependence. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligibility for ENGL 1010.

HLTH 1204  Healthy Aging
A study of the physiological, psychological and sociological effects of aging on individual health. Selected health problems, health care, and diseases specific to the elderly will be considered, as well as the well-being and enhancement of life styles of the elderly. (3 cr. hrs.) (ASN).

HLTH 1205  Consumer Health
Prepares individuals to make intelligent decisions regarding the purchase and use of products and services that will have a direct effect on health. (3 cr. hrs.) (ASN).

HLTH 1206  Issues in Women’s Health
Issues and needs related to the health care of women as individuals and members of a family, community and society. Changing roles and life styles and traditional and non-traditional approaches to the health care of women. (3 cr. hrs.) (ASN). Prerequisite: Eligible to take ENGL 1010. Writing in content area.

HLTH 1207  Foundations of Personal Health
A comprehensive course addressing the current health problems facing our society, focusing on behavioral health strategies for prevention; risk-reduction; and basic principles and practices involved with attaining and maintaining optimal personal health and wellness. (3 cr. hrs.) (Fall, Spring).
HI.TH 1400  Global Health
Equip students with a basic introduction to major global public health issues, challenges, programs and policies, focusing on those that transcend national boundaries, and key related questions in global governance. Introduction to the world’s vast diversity of determinants of health and disease Students will gain an understanding of current and emerging global health priorities, including emerging infectious diseases, poverty, conflicts and emergencies, health inequity, health systems, global public health policies and initiatives, the current functioning of the global health system and its shortcomings, and exposure to new approaches and solutions to addressing global public health challenges, placing priority on improving health and achieving equity in health for all people worldwide. Emphasizes the concept of shared health problems and solutions. (3 cr. hrs.) Prerequisite: Eligibility for ENGL 1010. (Fall, Spring)

HI.TH 1510  Introduction to Nutrition
Comprehensive study of the science of human nutrition. Topics include historical and cultural aspects of diet, food production systems, dietary theories and bio-individuality, food energy, macro and micro nutrients, attainment of optimal health through applied nutritional principles, and global nutrition. Lecture/Lab (3 cr. hrs.) (Fall, Spring). Fee: $25.

HI.TH 1610  Grant Writing & Fundraising for Community Health & Human Services
Skills necessary to write, present, and submit a winning grant proposal. Research, writing, interpersonal, computer, team work, psychological, promotional, and budgeting. Strategies for effective fundraising will also be addressed. (3 cr. hrs.) (ASN). Prerequisite: Must be eligible to take ENGL 1010. Writing in content area.

HI.TH 1700  Principles of Public and Community Health Education
Introduction to basic concepts and principles of community and public health. Designed for community and public health program majors. Students will identify and begin to develop skills necessary to work within the role as a health educator in various community health settings. Addresses core knowledge and skills for facilitating community organization and empowerment for health promotion. Topics include: history and foundation of community and public health, structure and function of the health care delivery system, role of government, non-profit and private agencies, community organization, community assessment, principles of epidemiology, health disparities, advocacy, social justice, environmental and ecological health issues. (3 cr. hrs.) (ASN). Prerequisites: Eligibility for ENGL 1010.

HI.TH 2007  Advanced First Aid
A comprehensive course addressing the current health problems facing our society, focusing on behavioral health strategies for prevention; risk-reduction; and basic principles and practices involved with attaining and maintaining optimal personal health and wellness. (1 cr. hr.) Cannot receive credit for this course and WELL 1000.

HI.TH 2100  Life Coaching for Health Behavior Change
Explore introductory coaching skills and techniques designed to help people gain momentum and make positive health behavior changes leading toward healthy lifestyles. (3 cr. hrs.) (ASN). Prerequisite: PSYC 1101 or instructor’s permission.

HI.TH 2200  Environmental Health
The role of the individual in the preservation and promotion of the long-term welfare of the global environment. Covers some of the global environment problems facing society, and how personal choice and responsibility can be used to address some of them. (3 cr. hrs.) (ASN). Lecture / Discussion / Projects.

HI.TH 2212  Introduction to Health Education and Wellness Education
An overview of the role health and wellness educators play in our society through community and individual health promotion and education. Introduction to the founding principles, models, theories, and practices of the profession from historical and contemporary perspectives. Ethical principles, responsibilities and competencies, and practice setting related to health and wellness will be explored, as well as relevant research, resources, current issues and future trends in the field. (3 cr. hrs.) (Spring). Prerequisite: Eligible to take ENGL 1010.

HI.TH 2400  Stress Management
Explore the field of Psychoneuroimmunology (PNI) as it applies to the nature of the mind-body connection and its influence on health and well-being. Current scientific theory and research regarding the mind’s ability to either positively or negatively influence the physical body’s health and immune response will be studied. Research theory and application of a variety of integrative modalities in promoting wellness will be studied. Topics include intuition, meditation, guided imagery, cognitive and emotional restructuring, spirituality and faith, social support, humor and laughter, art, music and movement therapies. (3 cr. hrs.) (Fall, Spring).

HI.TH 2503  Advanced Life Support
Designed for health care workers who perform critical assessments and take immediate actions to deal with acute health problems. Teaches skills to be used in emergency situations, including implementation of ACLS algorithms. ACLS provider certification by American Heart Association upon completion. (1.5 cr. hrs.) (Spring). Prerequisite: BLS certification, EMT Critical Care or Paramedic certification, or NURS 2100.

HI.TH 2800  Fundamentals of Applied Epidemiology and Biostatistics
Introduces basic concepts of epidemiology and biostatistics as applied to public health problems. Emphasis placed on principles and methods of epidemiologic investigation, appropriate summaries and displays of data, and use of classical statistical approaches to describe the health of populations. Topics include dynamic behavior of disease; usage of rates, ratios and proportions; methods of direct and indirect adjustment, and clinical life table which measures and describes the extent of disease problems. Various epidemiologic study designs for investigating associations between risk factors and disease outcomes are also introduced, culminating with criteria for causal inferences. Application of these disciplines in the areas of health services, screening, genetics, and environment policy are presented. Influence of epidemiology and biostatistics on legal and ethical issues are also discussed. (3 cr. hrs.) (Fall, Spring). Prerequisites: Eligibility for MATH 1310 and ENGL 1010.

HI.TH 2900  Peer Recovery Advocacy & Coaching
Develop non-clinical, peer based recovery advocacy and coaching skills designed to engage peers beyond initial contact through stabilization and into recovery maintenance with the community. Identify multiple pathways to recovery, build recovery capital and individualized recovery wellness plans, assist in self-monitored progress, integrate personal experience, facilitate peer support groups, identify community and individual supports and service; and practice effective coping skills. (3 cr. hrs.) Course Fee: $75. Meets SUNY General Education requirements.

HOSP  Hospitality
Division of Professional Studies

HOSP 1000  Introduction to Hospitality
A management perspective in introducing the organization and structure of hotels, restaurants, clubs, cruise ships, and casino hotels. Topics also include business ethics, franchising, management contracts, and areas of management responsibility such as human resources, marketing and sales, and advertising. (4 cr. hr.) (ASN). Lecture / Hybrid.
HOSP 2960  Hospitality Practicum
Practice in a supervised work setting to use skills and knowledge acquired in hospitality and other courses. The practicum experience is a minimum of 180 hours and includes a weekly on-campus seminar used for discussion of the practicum experiences and for assessment of learning. (4 cr. hrs.) (ASN). Prerequisites: HOSP 1000.

ITAL  Italian
Division of Humanities and Social Sciences
Faculty: Michael Beykirch

ITAL 1010  Elementary Italian Conversation and Structure I
Italian vocabulary and expressions. Listening comprehensions, speaking ability, reading and writing. For students with little or no background in the language. (4 cr. hrs.) (ASN). Lecture/recitation/ laboratory. Meets SUNY General Education requirement in Foreign Languages.

ITAL 1020  Elementary Italian Conversation and Structure II
Additional practice in conversation, development of reading and writing skills, and a systematic study of Italian grammar. (4 cr. hrs.) (ASN). Prerequisite: ITAL 1010. Lecture/recitation/laboratory. Meets CCC General Education requirement in Foreign Languages.

ITAL 2010  Intermediate Italian I
Development of facility in reading, writing, and speaking and understanding the language through systematic review and continued study of its structures. (4 cr. hrs.) (ASN). Prerequisite: ITAL 1020. Lecture/recitation/laboratory. Upper-level course. Meets CCC General Education requirements in Foreign Languages.

HUMA  Humanities
Division of Humanities and Social Sciences

HUMA 1010  Basic Humanities I
Survey of achievements in humanistic endeavor in art, history, literature, music, and philosophy from ancient Greece through the Middle Ages. (3 cr. hrs.) (Fall, Spring). Prerequisite: Must be eligible to enroll in ENGL 1010. Writing in content area. Meets SUNY General Education requirement in Western Civilization or Humanities.

HUMA 1020  Basic Humanities II
Survey of achievement in humanistic endeavor in art, history, literature, music and philosophy from the Renaissance to the present. (3 cr. hrs.) (ASN). Prerequisite: Must be eligible to enroll in ENGL 1010. Writing in content area. Meets SUNY General Education requirement in Western Civilization or Humanities.

HUMA 1010  The Sexes in Art & Literature
The relationships between the sexes as revealed in works of art and literature from ancient Egypt through the 17th Century. (3 cr. hrs.) (ASN). Prerequisite: HUMA 1010 and ENGL 1010. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Western Civilization or Humanities.

HUMA 2010  Lessons in Leadership
Development of practical, effective, enduring leadership skills through study, observation, and application. Integrates readings from humanities, experiential exercises, films, and contemporary readings on leadership. Prerequisite: Eligibility for placement into ENGL 1010. (3 cr. hrs.) (ASN)

HUMA 2020  General Linguistics
Historical, psychological, structural, geographic and sociological aspects of language. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1010 Upper-level course. Meets SUNY General Education requirement in Humanities.

HUMA 2030  Women in the Humanities
Women as authors, artists, historians, scientists, and philosophers from pre-history to present. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1010. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

MACH  Machine Tool
Division of Engineering Technology

MACH 1001  Precision Machining I
Use of hand tools to produce layouts and objects. Theory and practice of grinding tool bits, turning, facing, taper turning, boring and thread cutting on lathe and drill sharpening. Operation and setup of lathes, grinders, mills, drill presses. Identification, demonstration and application of machine shop safety equipment and procedures. Second semester focuses on more advanced theory and projects. (5 cr. hrs.) (Fall). Prerequisite: Eligible to take college-level math. Lecture/laboratory. Lab fee.

LATN  Latin
Division of Humanities and Social Sciences
Faculty: Michael Beykirch

LATN 1010  Elementary Latin I
Introduction to basic grammar and vocabulary of Latin; oral reading and translation of brief passages of prose; attention to historical background, literary, artistic, historical, and religious achievements. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1010, broadening range of vocabulary and syntax; increased emphasis on reading and translating passages from Classical authors. (3 cr. hrs.) (ASN). Prerequisite: LATN 1010 or one year of Latin study. Meets SUNY General Education requirement in Foreign Languages.

LATN 2020  Elementary Latin II
Continuation of LATN 1010, broadening range of vocabulary and syntax; increased emphasis on reading and translating passages from Classical authors. (3 cr. hrs.) (ASN). Prerequisite: LATN 1010 or one year of Latin study. Meets SUNY General Education requirement in Foreign Languages.

INDI  Community Engaged Learning
Division of Professional Studies

INDI 1001, 1002, 1003  Community Engaged Learning
Requirements, obligations, and strategies for successful community service. Historical impact of community service in U.S. society. Emphasis on benefits of civic engagement and lifelong community involvement. Setting work and commitment expectations, identifying skills, and learning basic skills essential to volunteer situations. May be taken for one (INDI 1001), two (INDI 1002), or three (INDI 1003) credit hours.
MACH 1250  Metallurgy for the Machinist
Metallurgy as applied to machining operations. Structure of metals, thermal processing, hardness and mechanical testing, metals (steel, stainless steel, copper, aluminum, irons), tooling materials, near net shape processes. Lab demonstrations include hardness and mechanical testing. (3 cr. hrs.) (ASN). Lecture/demonstration.

MACH 1540  Precision Machining II
Theory and practice of turning, milling, facing, taper turning, boring and thread cutting on mills and lathe, and drill sharpening. Operation and setup of lathes, grinders, mills, drill presses. Identification, demonstration and application of machine shop safety equipment and procedures. Semester focuses on more advanced theory, operations, and projects. (5 cr. hrs.) (Spring). Prerequisite: MACH 1040. Lecture/laboratory. Lab fee.

MACH 2350  Machine Tool Co-Op
Students will be placed in local machining companies where they will experience production-related issues and problems. Includes meetings with faculty, worksite supervisor, and completion of workbook and term paper describing job-related activities. (3 cr. hrs.) (Summer). Prerequisites: MACH 1040, MACH 1540, and MECH 1560.

MACH 2380  Mastercam I
Introduces the principles and procedures used in PC based CAD/CAM part programming. Uses Mastercam, a PC-based CAD/CAM system, to produce complex machined parts from detailed drawings on advanced CNC machine tools. Topics include basic and advanced CAD/CAM principles and procedures and identification, demonstration and application of machine shop safety equipment and procedures. (3 cr. hrs.) (Fall, Spring). Prerequisites: TECH 1080 or MACH 1040; MECH 1050 and 1560. Lecture/laboratory. Lab fee.

MACH 2400  CNC Machining
Use of advanced CNC machine tools in the manufacture of metal parts. Emphasis on automatic tool changers, multiple work coordinates, tapping, machining and tool monitoring. Advanced programming using sub-routines and helical interpolation for three and four axis machining centers. Identification, demonstration and application of machine shop safety equipment and procedures. (5 cr. hrs.) (Fall). Prerequisites: MECH 1560 and MACH 1040. Lecture/laboratory. Lab fee.

MACH 2410  Tooling Technology
Theory and practice of advanced metal cutting. Design and building of jigs and fixtures to properly locate and hold parts for metalworking. Lectures supplemented by demonstrations of current tooling and manufacturing techniques by industrial representative. Identification, demonstration and application of machine shop safety equipment and procedures. (4 cr. hrs.) (Spring). Prerequisites: MACH 2400. Lecture/Laboratory. Lab fee.

MACH 2510  CNC Lathe Programming
Introduces basic and intermediate concepts associated with M & G code programming (in the Fanuc format) for two axis CNC lathes. Students will learn how to write the codes necessary to create parts on state-of-the-art CNC turning centers, and the basic set-up procedures associated with operating these advanced machine tools. Topics will also include manual programming, advanced canned cycle programming and sub-programming, as well as identification, demonstrations and application of machine shop safety procedures. Students will utilize the advanced CNC laboratory to machine parts from the programs they create. (3 cr. hrs.) (Fall). Prerequisite: MACH 1040. Prerequisite or co- requisite: MECH 1050. Lecture/laboratory.

MATH 1005  Math for Nursing I
The first in a two-course sequence designed for students in the Nursing Program. Students will develop their skills in dimensional analysis for unit conversion and dosage calculation. Proportional thinking will be used to evaluate results. The International System (SI) of Units and non-SI units will be studied. For certain topics and portions of exams, no students will be allowed to use a calculator. No C or D grades. For certain topics and portions of exams, no students will be allowed to use a calculator. Grading: A through C, F.

MATH 1006  Math for Nursing II
This course is the second in a two-course sequence designed for students in the Nursing Program. Students will develop skills to solve clinical calculation problems, calculate pediatric dosages, and calculate intravenous (IV) dosages that incorporate drip rates and body weights. For certain topics...
and portions of exams, no students will be allowed to use a calculator. Does not fulfill Nursing program math requirement. (1 cr. hr.) (Spring). Prerequisite: MATH 1005 or eligible to enroll in NURS 1500.

MATH 1110 Structures of Mathematics I
Topics include problem-solving techniques and number patterns, base systems, numeration systems, number theory, and the study of the natural through the complex number systems. (3 cr. hrs.) (Fall, Spring). Prerequisite: MATH 0970, 0980, or placement. Designed for students who wish to end their mathematics education after meeting minimum degree requirements.

MATH 1120 Structures of Mathematics II
Topics include sets, geometry, an introduction to right triangle trigonometry, counting principles, probability, and an introduction to statistics. (3 cr. hrs.) (Fall, Spring). Prerequisite: MATH 0970, 0980, or placement. Designed for students who wish to terminate their mathematics education after meeting minimum degree requirements.

MATH 1130 Math for Elementary Teachers I
One of a two course sequence for the prospective pre-K through grade 6 teacher. Develops a comprehensive understanding of the mathematical curriculum as recommended by the National Council of Teachers of Mathematics Standards. Topics include foundations for learning mathematics, fundamental concepts, the four fundamental operations of arithmetic, number theory, and extending the number system. (3 cr. hrs.) (Fall, Spring). Prerequisite: MATH 0970, 0980, or placement. Cannot receive credit for this course and MATH 1110. Meets SUNY General Education requirement in Mathematics.

MATH 1140 Math for Elementary Teachers II
The second of a two-semester sequence for the prospective Pre-K through Grade 6 teacher. Students will develop a comprehensive understanding of the mathematical curriculum as recommended by the National Council of Teachers of Mathematics Standards. Topics will include: proportional reasoning, data and chance, basic two-dimensional and three-Dimensional geometry, congruence transformations, symmetry, tessellations, similarity, fraction sense, perimeter and area, and surface area and volume. (3 cr. hrs.) (Fall, Spring) Prerequisite: MATH 0970, 0980 or placement. Cannot receive credit this course and MATH 1120. Meets SUNY General Education requirement in Mathematics.

MATH 1150 Quantitative Reasoning II
Focuses on mathematical and statistical reasoning important for decision-making in everyday life. Integrates quantitative literacy with percentages, probability, mathematical modeling, and statistical thinking. Concepts are investigated with hands-on activities using important medical, financial, and environmental decisions examples. Communicating mathematics and using appropriate technologies will also be developed in this course. (3 cr. hrs.) (Fall, Spring). Prerequisite: MATH 0970, MATH 0980 or placement. Meets SUNY General Education requirements in mathematics.

MATH 1215 Intermediate Algebra I
This course is the first of a two-semester sequence designed to meet the SUNY General Education Standards. The primary emphasis in this course is to use mathematics to solve problems. Topics include: functions, modeling with functions, linear functions, systems of linear equations and inequalities, composition and inverse functions, quadratic and higher order polynomial functions. (3 cr. hrs.) (Fall, Spring). Prerequisite: MATH 0980 or placement. Cannot receive credit for this course if previously received credit for MATH 1210 or MATH 1230-1240. A graphing calculator without a CAS (Computer Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended.

MATH 1225 Intermediate Algebra II with Trigonometry
The second of two-semester sequence designed to meet the minimum mathematics needs of college students. The primary emphasis in this course is to use mathematics to solve problems. Topics include: exponential functions, logarithmic functions, rational functions, and trigonometric functions. (3 cr. hrs.). Prerequisite: MATH 1215. Cannot receive credit for this course if previously received credit for MATH 1220 or MATH 1230-1240. A graphing calculator without a CAS (Computer Algebra System) is required; Texas Instruments TI-83/84 recommended.

MATH 1230 Elements of Applied Math I
Primarily for students enrolled in the technology programs. Problems in science and engineering are stressed. First semester includes algebraic operations review, functions and graphs, trigonometric functions and graphs, vectors and oblique triangles. (3 cr. hrs.) (Fall, Spring). Prerequisite: MATH 0980 or placement. Cannot receive credit for this course if previously received credit for MATH 1210-1220 or MATH 1215-1225. A graphing calculator without a CAS (Computer Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended.

MATH 1240 Elements of Applied Math II
Second semester of a two-semester sequence. Primarily for students enrolled in technology programs. Problems in science and engineering are stressed. Topics include systems of equations, factoring, algebraic fractions, quadratic equations, exponential and logarithmic functions, analytic geometry and complex numbers. (3 cr. hrs.) (Fall, Spring). Prerequisite: MATH 1230. Cannot receive credit for this course if previously received credit for MATH 1210-1220 or MATH 1215-1225. A graphing calculator without a CAS (Computer Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended.

MATH 1310 Elementary Statistics
An intuitive approach to statistics. Analysis and description of numerical data using frequency distributions, histograms and measures of central tendency and dispersion, elementary theory of probability with applications of binomial and normal probability distributions, sampling distributions, confidence intervals, hypothesis testing, chi-square, linear regression, and correlation. The computer language Minitab will be used. (4 cr. hrs.) (Fall, Spring). Prerequisite: MATH 1150 or higher, or placement. Eligible for ENGL 1010. A graphing calculator without a CAS (Computer Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended. Meets SUNY General Education requirements in Mathematics.

MATH 1411 Elementary Functions I
Semester includes definitions and axioms of the number systems, inequalities, absolute value, graphical analyses of polynomial, rational functions, and systems of equations. (3 cr. hrs.) (Fall, Spring). Prerequisite: MATH 1225 or MATH 1240, or placement. Cannot take both MATH 1411-1412 and MATH 1413 for credit. A graphing calculator without a CAS (Computer Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended. Meets SUNY General Education requirement in Mathematics.

MATH 1412 Elementary Functions II
The second semester of a two semester sequence to prepare students to take Calculus. The course thoroughly studies trigonometric functions of real numbers, including their graphs, and trig identities and applications of trigonometry. Analytical geometry is covered and an introduction to polar coordinates. Mathematical induction and the binomial theorem are also introduced. (3 cr. hrs.) (Spring). Prerequisite: MATH 1411 or placement. Cannot take both MATH 1411-1412 and MATH 1413 for credit. A graphing calculator without a CAS (Computer Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended. Meets SUNY General Education requirements in Mathematics.
MATH 1413  Pre-Calculus Mathematics  
The characteristics of elementary real functions including algebraic and  
graphical analysis, inequalities, absolute values, logarithms, trigonometry of  
real numbers, plane analytic geometry, polar coordinates, complex numbers  
and Binomial Theorem. (4 cr. hrs.) (Fall, Spring). Prerequisite: MATH 1225  
or MATH 1240, or placement. Cannot take both MATH 1411-1412 and  
MATH 1413 for credit. A graphing calculator without a CAS (Computer  
Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended.  
Meets SUNY General Education requirements in Mathematics.

MATH 1510  Fundamental Concepts of Calculus I  
Beginning calculus for business, technology and the social and life sciences.  
Applications are stressed. Limits, rules for differentiation, higher-order and  
implicit differentiation, related rates, extrema, optimization and curve  
plotting. (3 cr. hrs.) (Fall, Spring). Prerequisites: MATH 1225 or MATH  
1240, or placement. MATH 1411 recommended. A graphing calculator  
without a CAS (Computer Algebra System) is required; Texas Instruments  
TI-83 or TI-84 recommended. Cannot receive credit for this course and  
MATH 1610. Meets SUNY General Education requirements in Mathematics.

MATH 1512  Fundamental Concepts of Calculus II  
Introduction to integral calculus; differentiation and integration of  
exponential, logarithmic and trigonometric functions; further integration  
techniques; brief introduction to differential equations. (3 cr. hrs.) (ASN).  
Prerequisite: MATH 1510. Cannot receive credit for this course and  
MATH 1610. A graphing calculator without a CAS (Computer Algebra  
System) is required; Texas Instruments TI-83 or TI-84 recommended.

MATH 1610  Calculus I  
The first semester of differential and integral single variable calculus. Basic  
theory using algebraic and trigonometric function and applications are covered  
concurrently. Topics include limits, derivatives (considered algebraically and  
graphically), differentials and their use as approximations, indefinite  
and definite integrals with applications to areas, volumes, surface area,  
arc length, moments and center of mass. (4 cr. hrs.) (Fall, Spring).  
Prerequisites: MATH 1411-1412 or MATH 1413. Cannot receive credit for  
this course and MATH 1510-1520. A graphing calculator without a CAS  
(Computer Algebra System) is required; Texas Instruments TI-83 or TI-84  
recommended. Meets SUNY General Education requirement in Mathematics.

MATH 1620  Calculus II  
A continuation of Calculus I. Topics include calculus of conics, logarithmic,  
exponential, and hyperbolic functions, techniques of integration, infinite  
series, parametric equations, and polar coordinates. (4 cr. hrs.) (Fall, Spring).  
Prerequisite: MATH 1610. A graphing calculator without a CAS (Computer  
Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended.  
Meets SUNY General Education requirement in Mathematics.

MATH 2330  Discrete Structures  
Discrete mathematical foundations and their relationship to computing. Sets  
and set relations, functions, graphs and digraphs, trees and strings,  
permutations and combinations, Boolean algebra, algebraic structures and  
concepts. (3 cr. hrs.) (ASN). Prerequisite: MATH 1411 or higher. A graphing  
calculator without a CAS (Computer Algebra System) is required; Texas  
Instruments TI-83 or TI-84 recommended Meets SUNY General Education  
requirement in Mathematics.

MATH 2350  Introduction to Proofs  
Transitions students from the calculus sequence to abstract mathematics.  
Topics include: techniques of proofs, sets, logic, proof by induction,  
functions, relations, and number theory. (3 cr. hrs.) (ASN). Prerequisite:  
MATH 1620. A graphing calculator without a CAS (Computer Algebra  
System) is required; Texas Instruments TI-83 or TI-84 recommended.

MATH 2410  Probability and Statistics I  
The basic concepts of probability theory. Topics include descriptive statistics,  
axioms of probability, conditional probability, independence, continuous and  
discrete random variables, distribution functions, expectation, variance, and  
the Central Limit Theorem. Mathematical software will be used to reinforce  
concepts. (3 cr. hrs.) (ASN). Prerequisite: MATH 1620. A graphing  
calculator without a CAS (Computer Algebra System) is required; Texas  
Instruments TI-83 or TI-84 recommended Meets SUNY General Education  
requirements in Mathematics.

MATH 2560  Introduction to Linear Algebra  
An introductory course in linear algebra, blending theory with computational  
techniques and applications. Includes vector spaces, determinants, systems  
of linear equations, algebra of matrices, inner product spaces, mapping,  
subspaces, bases, linear transformations, and eigenvectors. (3 cr. hrs.)  
(Spring). Prerequisite: MATH 1620. A graphing calculator without a CAS  
(Computer Algebra System) is required; Texas Instruments TI-83 or TI-84  
recommended. Meets SUNY General Education requirement in Mathematics.

MATH 2610  Calculus III  
Multivariable calculus. Topics include parametric equations, polar  
coordinates, vectors and their applications to problems of motion and solid  
analytical geometry, functions of several variables, partial differentiation,  
multiple integration, line integral, Green’s theorem, and Stokes’ theorem. (4  
hr. hrs.) (Fall). Prerequisite: MATH 1620. A graphing calculator without a CAS  
(Computer Algebra System) is required; Texas Instruments TI-83 or TI-84  
recommended. Meets SUNY General Education requirement in Mathematics.

MATH 2620  Ordinary Differential Equation  
Ordinary differential equations, including first and second order equations;  
applications in science, engineering, and geometry; the use of infinite series  
and complex numbers in solving equations; a discussion of nth order linear  
differential equations; an introduction to LaPlace transforms; numerical  
methods and systems of differential equations. (4 cr. hrs.) (Spring).  
Prerequisite: MATH 1620. A graphing calculator without a CAS is required;  
Texas Instruments TI-83 or TI-84 recommended. Meets SUNY General  
Education requirement in Mathematics.
MATHEMATICS Courses

MATH 0860  Basic Math Skills (1 Week Class)  MATH 1150  Quantitative Reasoning II
MATH 0960  Prealgebra  MATH 1215  College Mathematics I (Interm. Algebra)
MATH 0970  Quantitative Reasoning I  MATH 1225  College Mathematics II (Interm. Alg/Trig)
MATH 0980  Beginning Algebra  MATH 1300  Elements of Applied Math I
MATH 1005  Math for Nursing I  MATH 1320  Elements of Applied Math II
MATH 1006  Math for Nursing II  MATH 1330  Elementary Statistics
MATH 1110  Structures of Mathematics I  MATH 1411  Elementary Functions I (College Algebra)
MATH 1120  Structures of Mathematics II  MATH 1412  Elementary Functions II (Trig. & More)
MATH 1130  Math for Elementary Teachers I  MATH 1413  Precalculus
MATH 1140  Math for Elementary Teachers II

MATH 2330, 2350, 2410, 2560, 2610, 2620
MATH 1620
MATH 1610
MATH 1413
MATH 1411
MATH 1510
MATH 1310*
MATH 1225
MATH 1215
MATH 1230
MATH 1110, 1120, 1130, 1140
MATH 1150**
MATH 0970**
MATH 0860
MATH 0960
MATH 0980

Note 1: MATH 0860, 0960, 0970 and 0980 are developmental mathematics courses and DO NOT receive college credit.
Note 2: MATH 1005 and 1006 (Math for Nursing I and II) are available to nursing students above MATH 0960.
Note 3: MATH 1110, 1120, 1130, 1140 or 1150 can be taken in any order.
*Note 4: MATH 1150 or 1215 or 1230 or higher MEET the prerequisite for MATH 1310.
**Note 5: MATH 0970 and 1150 DO NOT MEET the prerequisite for MATH 1215 or MATH 1230.
MCOM  Media Communications
Division of Humanities and Social Sciences
Note: These courses may be used to fulfill humanities, liberal arts, and free elective degree requirements.

MCOM 1010  Media and Society: Introduction to Mass Communication
An introduction to mass media, its influences on society, and the business of mass media. The media will include the Internet, digital media, digital gaming, sound recording, broadcast and print media. The business of mass media includes advertising, public relations, and media economics, along with ethical expression. (3 cr. hrs.) (ASN). Prerequisite: Eligible to enroll in ENGL 1010.

MCOM 1510  Basic Filmmaking
Introduction to the tools and techniques of filmmaking. Exercises span a variety of short film genres including silent, documentary, fictional narrative, and music video. Includes storyboarding, script writing, camera operation, sound recording, lighting, and editing. (3 cr. hrs.) (ASN). Eligible to enroll in ENGL1010. Lecture/Studio/Field.

MCOM 2010  Writing for Media
Students build skills in writing for a variety of media and purposes: print, digital, and broadcast media. Students explore the applications of written communication. Ethical and legal issues are applied to an analysis of various forms of media writing, including, but not limited to, print, digital, broadcast, public relations, and advertising. Prerequisites: ENGL 1010 and MCOM 1010.

MCOM 2150  Basic TV Production Techniques
Introduction and exercises in the use of the tools of television production. Includes camera operation, audio and video switching, lighting, basic script writing, and editing. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1010. Lecture/studio. Upper-level course.

MCOM 2160  TV: Production & Performance
Television scripting, directing and acting in a variety of formats including broadcast journalism, the interview, daytime drama and sitcom. (3 cr. hrs.) (ASN). Prerequisites: ENGL 1020 and MCOM 1510 or MCOM 2150 or THEA 1020. Writing in content area. Lecture/studio. Upper-level course.

MCOM 2700  The History of Film I
An introduction to film, including its artistic, cultural, technological, and historical development and impact from 1900 to 1950. Eight to ten films will be viewed. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Students may be required to attend films at commercial venues or rent videos. Some films will contain graphic depiction of adult themes and attitudes. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

MCOM 2710  The History of Film II
An introduction to film, including its artistic, cultural, technological, and historical development and impact from 1950 to present. Eight to ten films will be viewed. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1020. Students may be required to attend films at commercial venue or rent videos. Some films will contain graphic depiction of adult themes and attitudes. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

MCOM 2961, 2962, 2963, 2964  Radio/TV Internship
Practical work experience under the guidance of an on-the-site work supervisor. The internship may not be taken for pay. (1-4 cr. hrs.) (ASN).

MCOM 2971, 2972, 2973  Journalism/Technical Writing, Public Relations
Internship Journalism/Technical Writing, Public Relations Internship Practical work experience under the guidance of an on-the-site work supervisor. The internship may not be taken for pay. (1-3 cr. hrs.) (ASN).

MECH  Mechanical Technology
Division of STEM
Faculty: Dale Crandall, John Longwell, Michael Prechtl, Michael Reynolds

MECH 1050  Engineering Graphics I
Engineering graphics fundamentals, incorporating both manual and computer-aided drafting. Includes freehand sketching, principles of applied geometry, multiview drawings, dimensioning, sectioned views, pictorial, conventional drawing practices and standards, and an introduction to AutoCAD. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to take college-level math. Lecture/ laboratory. Lab fee.

MECH 1060  Technical Mechanics
A problem-solving course covering free body diagrams, vectors and vector computations, force systems, moments of forces, couples and equilibrium. The concept of kinematics; the study of displacement, velocity, and acceleration as related to both straight line and curvilinear motion. (2 cr. hrs.) (Fall). Prerequisites: MATH 1230 and PHYS 1010. Lecture/Laboratory.

MECH 1550  Engineering Graphics II
Continuation of MECH 1050 utilizing both manual and computer-aided drafting methods to produce engineering drawings. Includes auxiliary views, surface intersections, sheet metal developments, screw threads and fasteners, surface finish specifications, conventional and geometric tolerancing, and assembly drawings, advanced AutoCAD techniques and an introduction to Autodesk Inventor. (3 cr. hrs.) (Spring). Prerequisite: MECH 1050. Lecture/laboratory. Lab fee.

MECH 1560  CNC Programming
Computer Numerical Control (CNC) program creation for milling machines and machining centers, edit and simulation using Direct Numerical Control (DNC) software, setup and operation of milling centers to verify program tool paths. (3 cr. hrs.) (Spring). Prerequisites: Eligible to take college-level math and MACH 1040 or TECH 1080. Individual/group projects required. Lecture/laboratory. Lab fee.

MECH 1570  Dimensional Metrology
Introduction to ANSI Y-14.5M standard for geometric dimensioning and tolerancing (GD&T) and various inspection, measurement and testing methods. Includes use of basic inspection tools (rules, verniers, micrometers, dial calipers, indicators), gage blocks, surface plates, bore gages, fixed gages, sine plate, digital height gages, transfer gages, pro filometer, optical comparator and coordinate measuring machines (CMM), using software PC-DMIS. Calibration methods and measurement system analysis (MSA) techniques are covered. Field trip to industrial metrology department. (3 cr. hrs.) (Spring). Prerequisite: MECH 1050 and either MACH 1040 or TECH 1080. Lecture/ laboratory. Lab fee.

MECH 2010  Machine Design (Kinematics)
Graphical and analytic approaches to the basic principles of mechanisms. Displacement, velocity and acceleration are calculated for various linkages. Cams, gears, and gear trains are analyzed. Manual and CAD techniques used. (3 cr. hrs.) (Spring). Prerequisites: CADD 1700, MECH 1060 and MECH 1550. Lecture/laboratory. Lab fee.

MECH 2050  Hydraulics and Pneumatics
Basic components of hydraulics and fluidic systems such as cylinders, valves, and logic elements. Experiments to design and analyze circuits related to power transmission and control. (3 cr. hrs.) (Fall). Prerequisite: MATH 1230, TECH 1120. Lecture/laboratory. Lab fee.
MECH 2170  Strength of Materials
A problem-solving course including analysis of coplanar forces applied to simple structures, the resulting stresses and deformations, and design considerations. Effects of tension, compression, shear, torsion, and bending are studied through problem-solving and laboratory experiences. (4 cr. hrs.) (Spring). Prerequisites: PHYS 1010 and MECH 1060. Lecture/laboratory. Lab fee.

MECH 2210  Materials
Introduction to materials and selection methods. Topics include structure/properties relationships, mechanical properties of metals, strengthening mechanisms, failure analysis phase/transformation diagrams, thermal processing, metal alloys, corrosion, near net shape processes. Research paper/presentation. Lab experiments include hardness and mechanical test methods, thermal processing with microstructure evaluation. (4 cr. hrs.) (Fall). Prerequisite: PHYS 1010, TECH 1110, TECH 1120. Lecture/laboratory. Lab fee.

MEDT  Medical Terminology
Division of Professional Studies

MEDT 1010  Medical Terminology
Latin derivative words frequently encountered in the medical world. Provides a working knowledge of the structure of the word, prefix, suffix, and root definitions with application to body structures and systems. Additional health information related to the medical terms such as etiology, diagnosis, and management. Some self-teaching features are included. (1 cr. hr.) (ASN). Internet course.

MEDT 1020  Principles Medical Terminology
Advanced application of principles of medical term building. Students build an extensive medical vocabulary. Covers circulatory, respiratory, gastrointestinal, nervous and endocrine systems and psychiatric conditions. Some self-teaching features and online components are included. (1 cr. hr.) (ASN). Prerequisite: MEDT 1010. Internet course.

MEDT 1030  Applied Medical Terminology
Enhances the knowledge of medical terminology related to physiological conditions and treatments modalities. Covers musculoskeletal, integumentary, urinary systems; and oncological, reproductive system, maternal/fetal/neonatal conditions. Some self-teaching features are included. (1 cr. hr.) (ASN). Prerequisite: MEDT 1010. Internet course.

MFGT  Manufacturing
Division of STEM Faculty: John Longwell

MFGT 2020  Quality Management
A basic practical course presented from the industrial engineering standpoint. Includes basic theory in statistics as required for quality control applications. Control concepts and control chart methods for attributes and variables. Acceptance sampling plans, process capabilities, quality costs, Six Sigma, quality control responsibilities, and quality improvement techniques. (3 cr. hrs.) (ASN). Prerequisite: MATH 1240, TECH 1120.

MFGT 2030  Robots in Manufacturing
Operation of a four-axis horizontal assembly robot using AML/E Version 4 language. Set-up and full operation of the robot and the use of a personal computer for program creation and execution. Use of robot simulation software for off-line program development and analysis; robot safety. (3 cr. hrs.) (ASN). Lecture/laboratory. Lab fee.

MGMT  Management
Division of Professional Studies
Faculty: Timothy Bonomo, Deborah Dunbar

MGMT 1010  Introduction to Sport Management
This course is designed to provide an introduction to sport management and an overview of the role and scope of sport events, sport management and sport marketing as they contribute to the planning and development of a sport business. Legal, sociocultural, historical, political, and psychological concepts relevant to the management of sport; the professional skills and attitudes of successful sport managers; and ways in which the globalization of sport continues to affect sport management professions will be addressed. Explore career options in sport management, including entities such as but not limited to intercollegiate athletics, recreation, event and facility management, health and fitness clubs as well as professional sport. (3 cr. hrs.)

MGMT 2041  Principles of Management
Basic concepts of management using the process approach which identifies four basic functions of management: planning, organizing, leading, and controlling. Emphasis on the applied and theoretical aspects of the subject matter. (3 cr. hrs.) (Fall, Spring). Recommended only for sophomores in a business program.

MGMT 2042  Small Business Management
Locating an opportunity, start-up and continuing operation of a small business including developing a business plan, marketing and management. (3 cr. hrs.) (ASN).

MGMT 2044  Human Resource Management
Human resource management in organizations including recruiting, selection, placement, performance appraisals, and labor relations through transactional analysis concepts. (3 cr. hrs.) (ASN). Lecture/discussion/simulation exercises.

MGMT 2047  Managerial Field Experience
Practice of managerial skills in a supervised work setting. A field experience journal, paper, and a supervisor evaluation will be used to assess performance. (3 cr. hrs.) (ASN). Prerequisites: GPA 2.75 or better and MGMT 2041.
MUSC 1010  Fundamentals of Music
Fundamental elements of pitch, rhythm, musical notation and symbols, major and minor scales, intervals, and tonality. Course work will involve both written and aural skills. (3 cr. hrs.). (Fall, Spring) Prerequisite: Eligible to enroll in ENGL 1010. Lecture/Listening/Practice/Discussion.

MUSC 1110  Music Theory I
Music notation, scales, modes, keys, intervals, simple chord progressions, elementary sight singing, and elementary keyboard accompaniment using primary chords. (3 cr. hrs.) (ASN). Prerequisite: MUSC 1010. Meets SUNY General Education requirement in Humanities. Lecture/Listening/Practice/Discussion.

MUSC 1230  History & Appreciation of Music I
Medieval through Classical Development of Music in Western Civilization during Medieval, Renaissance, Baroque and classical periods. Essential trends of musical thought and style, formal structures, principles, and selected composers. (3 cr. hrs.) (Fall). Prerequisite: Eligible to enroll in ENGL 1010. Lecture/Listening/discussion. Meets SUNY General Education requirement in Humanities and Western Civilization.

MUSC 1240  History & Appreciation of Music II
Romantic through modern development of music in western civilization during the nineteenth and twentieth centuries. Essential trends of musical thought and style, formal structures, principles, and selected composers. (3 cr. hrs.) (Spring). Prerequisite: Eligible to enroll in ENGL 1010. Lecture/listening. Meets SUNY General Education requirement in Humanities and Western Civilization.

Performing Ensembles
No more than eight credits of any ensemble may be counted toward an Associate degree, and only four of these may be counted as humanities elective.

MUSC 1311  Instrumental Performing Ensemble
Participation in one or more instrumental areas. Depending on student interest and potential instrumentation, such groups might include a stage band, a brass ensemble, or a string trio. (1 cr. hr.) (Fall, Spring). Ensemble/rehearsal/performance. Repeatable course. Meets SUNY General Education requirement in the Arts.

MUSC 1321  Class Piano I
Practical knowledge and facility at the keyboard. Approach and content to meet individual need, beginner to advanced. (1 cr. hr.) (Fall, Spring). Class/laboratory. May be taken twice. Meets SUNY General Education requirement in the Arts.

MUSC 1325  Class Guitar I
Practical knowledge and facility in playing the guitar. Approach and content to meet individual need. (1 cr. hr.) (Fall, Spring). Class/laboratory. May be taken twice.

MUSC 1411  Vocal Performing Ensemble
Participation in one or more vocal areas. Depending on student interest and potential, groups might include a chorus, chamber singers, male quartet, or women’s chorus. (1 cr. hr.) (Fall, Spring). Ensemble/rehearsal/performance. Repeatable course. Meets SUNY General Education requirement in The Arts.

MUSC 1412  Select Vocal Ensemble
A small vocal ensemble open to all students with prior choral experience. The repertoire includes compositions from a wide variety of stylistic choices. (1 cr. hr.) (Fall, Spring). (ASN) Prerequisite: Instructor consent.

MUSC 1421  Class Voice I
To improve vocal abilities and knowledge about the singing voice. Vocal techniques applied through the interpretation of song, in class singing and individual solo work. (1 cr. hr.) (Fall, Spring). Class/laboratory. Repeatable course. Meets SUNY General Education requirement in The Arts.

MUSC 1500  American Musical Theater
A study of American musical theater from the early 1900’s to the present with special emphasis upon major contributors, significant works and the progressive development of this art form, and focusing upon historical events and societal changes which have influenced trends in production and performance. (3 cr. hr.) (ASN). Prerequisite: Students must be eligible to enroll in ENGL 1010. Lecture/listening/discussions.

Applied Music (1900 and 2900 series)
No more than two credits in any one applied area may be counted toward a degree. Applied areas include any course in the MUSC 1300, MUSC 1400, MUSC 1900, MUSC 2300, MUSC 2400 series.

MUSC 1990 series
Individual study in an applied music area. Not designed for beginners. Students must demonstrate intermediate to advanced performance skill. Dependent upon faculty availability and requires instructor permission to enroll. (1 cr. hr.) (Fall, Spring). Class/laboratory/performance. Repeatable course. Additional fee for private lessons. Meets SUNY General Education requirement in the Arts.

1910 Guitar
1920 Voice
1930 Strings
1940 Brass
1950 Woodwinds
1960 Percussion
1970 Keyboard
1980 Early Instruments
1990 Folk Instruments
MUSC 2120  Music Theory II
Part writing, harmonic analysis, modulation, melodic and harmonic dictation. (3 cr. hrs.) (ASN) (Spring). Prerequisite: MUSC 1110. Upper-level course. Meets General Education requirement in Humanities.

MUSC 2130  Reading Vocal Music
Practice of frequently used pitch and rhythm patterns to sing at sight simple melodic and rhythmic material found in simple songs, folk songs, art songs, and chorale music. Preparation for participation in school and community choruses and church choirs. (2 cr. hrs.) (ASN) (Fall). Prerequisite: MUSC 1110. Lecture/practice. Upper-level course.

MUSC 2140  Aural Skills I
Read and perform written music (sight-reading). Identify and notate heard music (dictation). Skills include aural identification of intervals, primary triads, major and minor scales. Vocal reading includes one and two part diatonic vocal lines in major and minor keys using moveable-do solfege and la-based minor. One and two part rhythm drills include various note values, subdivision of the beat, simple and compound meters, and basic conducting patterns. Dictation exercises include hearing and notating basic diatonic melodies in simple and compound meters with only basic subdivisions of the beat. (2 cr. hrs.) (ASN) (Spring). Prerequisite: MUSC 1010 or MUSC 1110. Lecture/practice. Upper-level course.

MUSC 2150  Aural Skills II
Read and perform written music (sight-reading). Identify and notate heard music (dictation). Continue to advance the skills introduced in Aural Skills I. Aural Skills II content includes aural identification of intervals, primary triads, scales and basic harmonic progressions. Vocal reading includes one and two part vocal lines in major and minor keys with increasing use of large intervals, chromaticism and modulation, using moveable-do solfege and la-based minor. One and two part rhythm drills include subdivisions of the beat using various note values and meters, syncopation, and irregular or changing meters. Dictation exercises include hearing and notating basic diatonic melodies in simple and compound meters with the inclusion of new melodic and rhythmic concepts introduced in this course. (1 cr. hrs.) (ASN) (Spring). Prerequisite: MUSC 2140 Aural Skills I. Lecture/practice. Upper-level course.

MUSC 2321  Class Piano II
Extends knowledge and performance developed in MUSC 1321. (1 cr. hr.) (Fall, Spring). Prerequisite: MUSC 1321. Class/laboratory. Scheduled to meet at the same time as MUSC 1321. May be taken twice. Meets CCC General Education requirement in the Arts. Upper-level course.

MUSC 2325  Class Guitar II
Extends knowledge and performance developed in MUSC 1325. (1 cr. hr.) (Fall, Spring). Prerequisite: MUSC 1325. May be taken twice. Class/laboratory. Upper-level course.

MUSC 2900 Series
Individual study in an applied music area. Students must demonstrate intermediate to advanced performance skill. Dependent upon faculty availability and requires instructor permission to enroll. (1 cr. hr.) (Fall, Spring). Prerequisite: 1900 level individual study in the same performance area. Class/laboratory/performance. Repeatable course. Upper level course. Additional fee for private lessons. Meets SUNY General Education requirement in the Arts.

2910 Guitar
2920 Voice
2930 Strings
2940 Brass
2950 Woodwinds
2960 Percussion
2970 Keyboard
2980 Early Instruments
2990 Independent Study Performance (other)

MUSC 2991 Independent Study Performance
Individual study in an applied music area as designed by the instructor to meet student need. Could include independent work in performance, composition, audition preparation, aural training, conducting, or other applied learning activities in the music field. Dependent upon faculty availability and requires instructor permission to enroll. (2 cr. hr.) (ASN) Class/laboratory/ performance. Repeatable course. Upper level course. Additional fee for private lessons.

NURS Nursing
Division of Professional Studies
Faculty: Jessica Bobby, Tammie Copp, Claudia Haile, Yuliya Lapierre, Jane Larson, Ashley Molina, Lisa Rose, Jeanne Streeter, Molly Welch, Mary Wolfe

NURS 0501  Nurse Aide/Home Health Aide
Focus is on Maslow’s Hierarchy of Needs. Includes hygiene, activity, ambulation, nutrition, elimination, comfort, safety, psycho-social and spiritual needs. Basic communications techniques and functioning as members of the healthcare team. Introduces elementary nursing process concepts. Students completing this course are eligible to sit for the NYS Certified Nursing Aid Certification Exam. (7 eq. cr. hrs.) (ASN). Lecture/skill practice/clinical laboratory. Fee. Students must pass a criminal background check, submit required health form with evidence of flu vaccine. Not considered a nursing or a free elective for the Nursing Program.

NURS 1100  Nursing I
The first in a sequence of four nursing courses. Content is based on Maslow’s Hierarchy of Needs and growth and development throughout the life cycle. Students will learn how to meet the physiological needs of the patient within the legal and ethical parameters of the nursing profession. (8 cr. hrs.) (Fall). Prerequisites: Submission of Nursing I eligibility packet (available online or from the Nurse Education Department) verifying successful completion of any developmental work required as a result of CCC assessment test; Eligible for MATH 1215; Biology & Chemistry in high school with a 75% or higher or a college course with a “C” or higher. Professional level CPR certification through an American Heart Association American Red Cross course only; Evidence of current health insurance; Updated health form specific for nursing students must be maintained throughout the program. Obtain a current criminal background check with a company designated by the Nurse Education Department and a Pennsylvania child abuse screening. Program requirements and prerequisites can be found in the “Programs” section of this catalog. Concurrent enrollment or prior completion of BIOL 1210 with a grade of C or higher (or prior completion of SCIN 1010 with a grade of C+ or higher or BIOL 2020 with a grade of C or higher). General Assembly Session (4 hrs./wk.), Small Assembly Sessions (2 hrs./wk.), hospital or campus laboratories (9 hrs./wk.). Labs can be assigned during day, evening and/or weekend hours. A grade of C or higher is required to continue in the program; satisfactory and safe performance in the lab is required to pass the course. Some Internet/Blackboard assignments are required in the course. Liability insurance, lab fee, testing fee, and course fee. A required orientation will be held prior to the start of the semester.
Prerequisite: Eligibility to enter the program. Proof of health insurance, criminal background and child abuse needed. Liability insurance. Considered a nursing elective for the Nursing program.

NURS 1500 Nursing II
This is the second in a sequence of four clinical nursing courses which builds on previously acquired skills and knowledge to provide nursing care to patients with threats to physiological and psychosocial needs within the legal and ethical parameters of the nursing profession. (8 cr. hrs.) (Spring).
Prerequisites: NURS 1100 or equivalent and BIOL 1210 with a grade of C or higher (or completion of SCIN 1010 with a grade of C+ or higher).
Completion of or concurrent enrollment of BIOL 1220 with a grade of C or higher (or completion of SCIN 1020 with a grade of C+ or higher or BIOL 2030 with a grade of C or higher). For advanced placement students:
Submission of Advanced Placement LPN packet (available on-line or from the Nurse Education Department) verifying successful completion of any developmental work required as a result of CCC assessment test: Eligible for MATH 1215; Biology or Chemistry in high school with a 75% or higher OR a college course with a C or higher. Professional level CPR certification through an American Heart Association or American Red Cross course only; Evidence of current health insurance; Updated health form specific for nursing students must be maintained throughout the program. Obtain a current criminal background check with company designated by the Nurse Education Department and a Pennsylvania child abuse screening. Submission of current LPN license registration and official PN transcript. Readiness exam score of 75 or higher. Program requirements and prerequisites can be found in the “Programs” section of this catalog. General Assembly Session (4 hrs./wk.), Small Assembly Sessions (2 hrs./wk.), hospital laboratory (9 hrs./wk.). Labs can be assigned during day, evening and/or weekend hours. A grade of C or higher is required to continue in the program; satisfactory and safe performance in the lab is required to pass the course. Some Internet/Blackboard assignments are required in the course. Liability insurance, lab fee, and course fee.

NURS 1502 Pharmacology for Nurses II
Designed to be taken concurrently with NURS 1500. The medications that will be presented will correspond with the class content in NURS 1500. This course will provide the student an opportunity to learn about the characteristics of medications, therapeutic use, adverse reactions and nursing implications. (1 cr. hr.) (Spring). Concurrent enrollment or completion of NURS 1500. Considered a nursing elective for the nursing program.

NURS 1515 Pediatric Assessment
This course will provide the student with the theory and clinical skill application to complete a pediatric health assessment. (1 cr. hr.) (ASN). Prerequisite: successful completion of Nursing 1100. Considered a nursing elective for the nursing program, not considered as a free elective.

NURS 1551 Clinical Nursing
Allows students enrolled in the nursing program to utilize in the clinical setting the knowledge, skills, abilities gained in NURS 1100 or NURS 1500 or their equivalent. (1 cr. hr.) (ASN). Prerequisite: Eligible to enroll in NURS 2100. All prerequisites for NURS 1500 with any updates needed. Liability insurance. Considered a nursing elective for the Nursing program. Proof of health insurance, criminal background and child abuse screening results required, CPR and health form required.

NURS 2000 Issues/Perspectives in Nursing
Historical influences, current issues, and trends for the future to understand the evolution of the profession. Nursing and the registered nurse’s role, responsibilities and opportunities in the healthcare delivery system. (2 cr. hrs.) (Fall, Spring, Summer). Prerequisite: Eligibility to enter NURS 2100 or NURS 2500. A grade of C or higher is required to meet graduation requirements. Writing in content area.

NURS 2100 Nursing III
This is the third in a sequence of four clinical nursing courses which builds on previously acquired skills and knowledge. The focus is on chronic health problems across the life span related to the physiological and psychosocial needs of the patient within the legal and ethical parameters of the nursing profession. (9 cr. hrs.) (Fall). Prerequisites: NURS 1500, BIOL 1210 and BIOL 1220 with a grade of C or higher; prior completion or concurrent enrollment in BIOL 2010 with a grade of C or higher; (or SCIN 1010, 1020 with a grade of C+ or higher OR a grade of C or higher in alternative sciences BIOL 2020, 2030 and either BIOL 2010 or CHEM 1010/1020 or 1510). Professional level CPR certification through an American Heart Association or American Red Cross course; evidence of current health insurance; updated health form specific for nursing students must be maintained throughout the program. Program requirements and prerequisites can be found in the “Programs” section of this catalog. General Assembly Session (4 hrs./wk.), Small Assembly Sessions (2 hrs./wk.), hospital laboratory (11 hrs./wk.). Labs can be assigned during day, evening and/or weekend hours. During planned mental health/community experiences, lab times may change. Some Internet/Blackboard assignments are required in the course. A grade of C or higher is required to continue in the program. Satisfactory and safe performance in the lab is required to pass the course. Liability insurance, lab fee, testing fee and course fee. A required orientation will be held prior to the start of the semester.

NURS 2102 Pharmacology for Nurses III
This course is designed to be taken concurrently with NURS 2100. The medications that will be presented will correspond with the class content in NURS 2100. This course will provide the student an opportunity to learn about the characteristics of medications, therapeutic use, adverse reactions and nursing implications. (1 cr. hr.) (Fall). Eligibility for concurrent enrollment or completion of NURS 2100. Can be considered a nursing elective for the Nursing program.

NURS 2110 Seminar for Entry into Nursing III
Reviews theory and skills from Nursing I & II to prepare re-entering students for Nursing III. Not for students progressing from Nursing II into Nursing III. (1 cr. hr.) (Summer). Fee $10. Not considered a nursing or free elective for the Nursing program.

NURS 2500 Nursing IV
This is the fourth and final course of the Nursing program which builds on previously acquired skills and knowledge and focuses on the physiological and psychosocial needs of the patient within the legal and ethical parameters of the nursing profession. The focus is on concepts of patient care management and the role of entry-level nurse. NCLEX preparation for the licensure exam is included in this course. Students must be within 15 credits of graduation in order to register for this course. (9 cr. hrs.) (Spring).
Prerequisites: NURS 2100 and successful completion of all required science courses. CPR certification through American Heart Association “Health Care Provider” or American Red Cross “Basic Life Support for the Professional Rescuer”; evidence for current health insurance; updated health form specific for nursing students must be maintained throughout the program. Returning students must obtain a current criminal background check with company designated by the Nurse Education Department and a Pennsylvania child abuse screening. Program requirements and prerequisites can be found in the “Programs” section of this catalog. General Assembly Session (4 hrs./wk.), Small Assembly Sessions (2 hrs./wk.), hospital laboratory (11 hrs./wk.). Labs can be assigned during day, evening and/or weekend hours. During planned mental health/community experiences, lab times may change. The last two weeks of the semester will include 48 hours of clinical that may be days/ evenings/weekends. Some Internet/Blackboard assignments are required in the course. A grade of C or higher is required to graduate from the program. Satisfactory and safe performance in the lab is required to pass the course. Health insurance is required. Liability insurance, lab fee, testing fee, and course fee.
NURS 2502 Pharmacology for Nurses IV
This course is designed to be taken concurrently with NURS 2500. The medications that will be presented will correspond with the class content in NURS 2500. This course will provide the student an opportunity to learn about the characteristics of medication, therapeutic use, adverse reactions and nursing implications. (1 cr. hr.) (Spring). Concurrent enrollment in NURS 2500 can be considered a nursing elective.

NURS 2510 Seminar for Entry into Nursing IV
Reviews theory and skills from Nursing I, II, & III to prepare a returning student to re-enter Nursing IV. Not for a student progressing from Nursing III into Nursing IV. (1 cr. hr.) (Spring). Fee $10. Not considered a nursing elective for the Nursing program.

PEPD  Physical Education Professional Development
Division of Professional Studies

PEPD 1000 Sports and the Law
Legal issues surrounding negligence, discrimination, liability, equipment and facilities, activity guidelines, risks. (1 cr. hr.) (ASN). Prerequisite: Eligible to take ENGL 1010. Writing in content area.

PEPD 1007 Lifeguard Training
Develop knowledge and skills to manage aquatic emergencies. Satisfies NYS requirement to become a lifeguard. (1 cr. hr.) (Spring). Prerequisite: At least 15 years of age; strong swimming skills. Lecture/activity. Fee $40.

PEPD 1018 Cooper Norm Standards Preparation
Provides students an understanding of civil service physical performance floor tests, the history and science underlying Cooper Institute norms testing, and the skills and knowledge needed to make lifestyle changes that will result in the successful completion of civil service physical floor test to the fiftieth (50th) percentile of the Cooper norms. (3 cr. hrs.) (Fall).

PEPD 1050 Theory of Coaching Baseball
Strategies and methods of coaching baseball will be discussed. Fundamentals of hitting, fielding, base running, pitching, conditioning and throwing will be covered. (1 cr. hr.) (Spring).

PEPD 1200 Introduction to Physical Education: The Profession
Professional aspects of physical education and recreation philosophy, related career possibilities, history, qualifications for work in the field, educational requirements and sociological perspectives. (3 cr. hrs.) (Fall).

PEPD 1201 Philosophy, Principles, and Organization of Coaching
One of three certification courses for those interested in coaching in a New York State public school system and structured to assist coaches in developing an athletic team. (3 cr. hrs.) (Fall).

PEPD 1202 Introduction to Athletic Training
Prevention and management of athletic injuries. Knowledge and understanding of health care for the recreational and competitive athlete. Organizing and establishing an effective athletic health care system. Techniques for preventing or minimizing sports related injuries. Recognition and management of specific injuries and conditions. This is a required course for the NYS Coaching Certification. (3 cr. hrs.) (Fall, Spring). Fee $25.

PEPD 1203 Principles of Strength Training
The value of strength training and the means to design and implement a program based on needs and goals. Supportive nutritional guidance. (3 cr. hrs.) (Spring). Lecture/laboratory.

PEPD 1204 Organization and Administration of Physical Education and Sport
This course includes the study of financial management, legal issues and responsibilities, facility and equipment planning, evaluation and scheduling from programs in physical education and sport. (3 cr. hrs.) (Summer).

PEPD 1205 Theory & Techniques of Coaching
This course is designed for an individual preparing to meet New York State Certification requirements to coach in the public school system. It is a mandatory component to the certification process. The course will discuss objectives, rules, regulations, and policies of athletics, as well as performance skills, technical information, and organization and management practices. (2 cr. hrs.) (ASN). Lecture.

PEPD 1206 Exercise Physiology
Increases the student’s knowledge and understanding about human physiology and the adaptations that occur during exercise. An understanding of how the body responds to acute and chronic exercise is crucial for the physical educator, athletic trainer, coach, or exercise physiologist. Each of the body's systems will be reviewed with a focus on the influences of activity. Laboratory experiences will allow students to integrate and apply the concepts of exercise physiology through investigative experiences. (4 cr. hrs.) (ASN). Lecture & Lab.

PEPD 2007 Water Safety Instructor
Preparation for qualification as instructor in Red Cross Water Safety. Emphasis is on swimming strokes, lifesaving skills, and teaching techniques. (2 cr. hrs.) (Spring). Lecture/activity. Fee $40.

PFIT  Physical Education
Division of Professional Studies

PFIT 1021 Jogging
Techniques to develop and maintain cardiovascular and physical fitness. Effect of exercise and maintenance of health through physical activity. Individualized jogging and exercise programs. (1 cr. hr.) (Fall, Spring). Lecture/activity.

PFIT 1051 Self Defense
Martial arts, wrestling, and street fighting techniques in defense against unarmed assailants. Includes a variety of hits, kicks, blocks, and throws, with some emphasis on physical fitness, attitudes, and strategies. (1 cr. hr.) (Fall, Spring). Lecture/activity.

PFIT 1060 Weight Training
Techniques to improve physical and cardiovascular fitness. Weight training and a personal program in strength, endurance, and body trimming. (1 cr. hr.) (Fall, Spring). Lecture/activity.

PFIT 1100 Introduction to Yoga
Teaches the basic practices of yoga: warm-ups, breathing, yogaic postures, massage, diet, hygiene, and other related practices. (1 cr. hr.) (Fall, Spring, Summer). Lecture/activity.

PFIT 1110 Walking
Emphasis on improving cardiovascular fitness and overall wellness through development and participation in individualized walking program. Techniques, safety, motivation, and nutrition discussed. (1 cr. hr.) (Fall, Spring). Lecture/activity/internet.

PFIT 1150 Nourishing Mind, Body, and Spirit
Independently explore a variety of enjoyable structured and unstructured activities to increase body movement. Create a personalized, healthy action plan for living well as a result of the experiences and information learned in this class. (1 cr. hr.) (Fall, Spring). Note: Some sections of this course will be held at community fitness facilities requiring membership fees for the duration of the course.
**PFIT 1500 Soccer I (Men)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs from August through October. (1 cr. hr.) (PFIT 1500 first fall season, PFIT 1501 second fall season). Prerequisite: Soccer skills beyond the basic skill level; PFIT 1500 is a prerequisite for PFIT 1501. Team participation.

**PFIT 1501 Soccer II (Men)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs August through October. (1 cr. hr.) (PFIT 1500 first Fall season, PFIT 1501 second Fall season). Prerequisite: Soccer skills beyond the basic skill level; PFIT 1500 is a prerequisite for PFIT 1501. Team participation.

**PFIT 1512 Soccer II (Women)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs August through October. (1 cr. hr.) (PFIT 1502 first fall season; PFIT 1503 second fall season). Prerequisite: Soccer skills beyond the basic level; PFIT 1502 is a prerequisite for PFIT 1503. Team participation.

**PFIT 1502 Soccer I (Women)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs August through October. (1 cr. hr.) (PFIT 1502 first fall season; PFIT 1503 second fall season). Prerequisite: Soccer skills beyond the basic level; PFIT 1502 is a prerequisite for PFIT 1503. Team participation.

**PFIT 1503 Volleyball I (Women)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs August through November. (1 cr. hr.) (First Fall season). Prerequisite: Volleyball skills beyond the basic level; PFIT 1504 is a prerequisite for PFIT 1505. Team participation.

**PFIT 1504 Volleyball II (Women)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs August through November. (1 cr. hr.) (Second Fall season). Prerequisite: Volleyball skills beyond the basic level; PFIT 1504 is a prerequisite for PFIT 1505. Team participation.

**PFIT 1505 Softball (Women)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs January through May. (1 cr. hr.) (First Spring season). Prerequisite: Softball skills beyond the basic skill level; PFIT 1510 is a prerequisite for PFIT 1511. Team participation.

**PFIT 1510 Softball (Women)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs January through May. (1 cr. hr.) (Second Spring season). Prerequisite: Softball skills beyond the basic skill level; PFIT 1510 is a prerequisite for PFIT 1511. Team participation.

**PFIT 1511 Softball (Women)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs January through May. (1 cr. hr.) (Second Spring season). Prerequisite: Softball skills beyond the basic skill level; PFIT 1510 is a prerequisite for PFIT 1511. Team participation.

**PFIT 1512 Baseball I (Men)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs from February through May. (1 cr. hr.) (First Spring season). Prerequisite: Baseball skills beyond the basic skill level; PFIT 1512 is a prerequisite for PFIT 1513. Team participation.

**PFIT 1513 Baseball II (Men)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs from February through May. (1 cr. hr.) (second spring season). Prerequisite: baseball skills beyond the basic skill level; PFIT 1512 is a prerequisite for PFIT 1513. Team participation.

**PFIT 1514 Basketball I (Men)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs October through March. (1 cr. hr.) (First Fall season). Prerequisite: Basketball skills beyond the basic skill level; PFIT 1514 is a prerequisite for PFIT 1516; PFIT 1515 is a prerequisite for PFIT 1517. Team participation.

**PFIT 1515 Basketball II (Men)**
Individual skills refined, perfected and integrated into concepts of team play. Season runs October through March. (1 cr. hr.) (First Spring season). Prerequisite: Basketball skills beyond the basic level; PFIT 1514 is a prerequisite for PFIT 1516; PFIT 1515 is a prerequisite for PFIT 1517. Team participation.

**PFIT 1516 Basketball III (Men)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs October through March. (1 cr. hr.) (Second Fall season). Prerequisite: Basketball skills beyond the basic level; PFIT 1514 is a prerequisite for PFIT 1516; PFIT 1515 is a prerequisite for PFIT 1517. Team participation.

**PFIT 1517 Basketball IV (Men)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs October through March. (1 cr. hr.) (Second Spring season). Prerequisite: Basketball skills beyond the basic level; PFIT 1514 is a prerequisite for PFIT 1516; PFIT 1515 is a prerequisite for PFIT 1517. Team participation.

**PFIT 1518 Basketball I (Women)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs October through March. (1 cr. hr.) (First Fall season). Prerequisite: Basketball skills beyond the basic skill level; PFIT 1518 is a prerequisite for PFIT 1520; PFIT 1519 for PFIT 1521. Team participation.

**PFIT 1519 Basketball II (Women)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs October through March. (1 cr. hr.) (First Spring Season). Prerequisite: Basketball skills beyond the basic skill level; PFIT 1518 is a prerequisite for PFIT 1520; PFIT 1519 for PFIT 1521. Team participation.

**PFIT 1520 Basketball III (Women)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs October through March. (1 cr. hr.) (Second Fall season). Prerequisite: Basketball skills beyond the basic skill level; PFIT 1518 is a prerequisite for PFIT 1520; PFIT 1519 for PFIT 1521. Team participation.

**PFIT 1521 Basketball IV (Women)**
Individual skills are refined, perfected and integrated into concepts of team play. Season runs October through March. (1 cr. hr.) (Second Spring season). Prerequisite: Basketball skills beyond the basic skill level; PFIT 1518 is a prerequisite for PFIT 1520; PFIT 1519 for PFIT 1521. Team participation.

**PFIT 1525 Co-Ed Cross Country I**
Running skills are refined, perfected and integrated into competitive strategies. The Cross Country season runs from August through November. (1 cr. hr.) (Fall/Spring/Summer). Prerequisite: Cross Country skills. Team participation.

**PFIT 1526 Co-Ed Cross Country II**
Running skills in refined, perfected, and integrated into competitive strategies. The Cross Country season runs from August through November. (1 cr. hr.) (Second Fall season). Prerequisite: PFIT 1525. Team Participation.
PHIL 1010  Introduction to Philosophy
Basic problems and topics of philosophy, e.g., theories of knowledge, reality and art, problems of science, politics, and religion. (3 cr. hrs.) (Fall, Spring). Prerequisite: Must be eligible to enroll in ENGL 1010. Meets SUNY General Education requirement in Humanities.

PHIL 1230  Philosophy of Life
Examines how and why people use a philosophy to deal with life’s concerns, for our relationships with society and the world, and our pursuit of a meaningful place within these wider realms. (3 cr. hrs.) (ASN). Prerequisite: Must be eligible to enroll in ENGL 1010. Writing in content area. Meets SUNY General Education requirement in Humanities.

PHIL 1300  Current Moral Issues
Examines today’s important ethical considerations about abortion, euthanasia, drug legalization, racial harmony, free speech, environmentalism, welfare, affirmative action, world hunger and similar issues. Attention to underlying larger philosophical concerns on nature, value, rights, and responsibilities of human beings. (3 cr. hrs.) (ASN). Prerequisite: Eligible to take ENGL 1010. Meets SUNY General Education requirement in Humanities.

PHIL 2010  Introduction to Ethics
Main ethical theories of traditional Western thought. Meanings and validity of value judgments, social consequences of value theory, examination of major traditional moral philosophies, and a survey of contemporary development in ethical theory. (3 cr. hrs.) (Spring). Prerequisite: Must be eligible to enroll in ENGL 1010. Upper-level course. Meets SUNY General Education requirement in Humanities.

PHIL 2070  Contemporary Philosophy
Introduction to issues, problems, and modes of thinking in contemporary philosophy. Explores topics of current concern in both the analytic and continental traditions of philosophy. Readings selected from works of contemporary authors such as Russel, Moore, Ayer, Austin, Heidegger, Gadamer, Derrida, and Rorty. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1010 or another philosophy course. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

PHIL 2200  Environmental Ethics
Explores issues concerning how humans ought to relate to and interact with their environment as individuals, through organizations and as a species. Examines environmental dilemmas relating to human population, poverty, animal rights, and intrinsic versus instrumental valuations of nature. (3 cr. hrs.) (ASN). Prerequisite: Must be eligible to enroll in ENGL 1010. Upper-level course. Meets SUNY General Education requirement in Humanities.

PHIL 2250  Health Care Ethics
Ethical issues arising in medicine, nursing, and other health care professions. Truth-telling and confidentiality, informed consent, fetal vs. maternal rights, euthanasia, the treatment of AIDS, genetic testing and engineering, medical resources, and social health care. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1010 or any philosophy course. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

PHIL 2310  Philosophy of Religion
Fundamental problems of religious thought. Arguments for the existence of God, the problem of evil, criteria of plausibility of religious claims, immortality, and church and state. Some attention to non-Western religions. (3 cr. hrs.) (Fall). Prerequisite: ENGL 1010 or any philosophy course. Writing in content area. Upper-level course. Meets SUNY General Education requirement in Humanities.

PHIL 2330  Honors Philosophy of Religion
Advanced version of the following: Fundamental problems of religious thought. Arguments for the existence of God, the problem of evil, criteria of plausibility of religious claims, immortality, and church and state. Some attention to non-Western religions. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1010 or any philosophy course. Must be honors-eligible. Upper-level course.

PHIL 2420  Social & Political Philosophy
Republicanism, libertarianism, democracy, socialism, communism, fascism, and anarchism are discussed and compared. The historical origins and contemporary views of justice, liberty, human rights, the public good, and political participation are examined. (3 cr. hrs.) (ASN). Prerequisite: ENGL 1010. Writing in content area. Meets SUNY General Education requirement in Humanities. Upper-level course.

PHIL 2500  Business Ethics
Application of ethical views to problems which arise in doing business in the U.S. Topics range from interpersonal relationships to advertising and investment policies to quality control. (3 cr. hrs.) (ASN). Prerequisite: Must be eligible to enroll in ENGL 1010; philosophy course recommended. Upper-level course. Writing in content area. Meets General SUNY Education requirement in Humanities.

PHYS 1010  Elementary Physics
Study of classic Newtonian mechanics with special applications to technology problems. (4 cr. hrs.) (Fall, Spring). Prerequisite: MATH 1230 or 1225. Experience with word processing recommended. Not open to mathematics or science majors for science credit. Primarily designed for students in technology programs. Lecture/laboratory. Lab fee.

PHYS 1580  Fiber Optics
Includes principles of light, optical fiber properties, fiber fabrication and design, optical sources and detectors, optical transmitters and receivers, and testing of fiber systems. (3 cr. hrs.) (Spring). Prerequisite: MATH 1240. Lecture/laboratory. Lab fee.

PHYS 1730  Principles of Physics I
Introductory principles of classical and modern physics. Mechanics of solids, periodic motion and sound, and heat and properties of matter. (4 cr. hrs.) (Fall). Prerequisite or Co-requisite: MATH 1411 or higher. A transfer course for students majoring in biology, chemistry, mathematics, or health sciences. Students wishing to major in physics may take this course but should transfer to PHYS 1820, 2830 and 2840 sequence after one semester. Lecture/laboratory. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

PHYS 1740  Principles of Physics II
The second semester in the physics sequence, continuation of PHYS 1730; electricity, magnetism, optics, and modern physics. (4 cr. hrs.) (Spring). Prerequisite: PHYS 1730. Lecture/laboratory. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

PHYS 1820  Physics I
The first semester of a three-semester sequence in calculus-based physics. Mechanics, including vectors, particle kinematics and dynamics, work and energy, impulse and momentum, rotational motion, and certain aspects of gravitational and fluid mechanics, if time permits. (4 cr. hrs.) (Spring). Prerequisite: MATH 1610. The three-semester, calculus-based sequence, PHYS 1820, 2830, 2840, is intended for students majoring in engineering, mathematics, physics, and computer science. Lecture/laboratory. Lab fee. Meets SUNY General Education requirement in Natural Sciences.
PHYS 2830  Physics II  
The second semester in the calculus based physics; Harmonic motion, heat transfer and thermodynamics, electrostatic fields, and D.C. circuits. (4 cr. hrs.) (Fall). Prerequisite: PHYS 1820. MATH 1620. Co-requisite: MATH 2610. Lecture/laboratory. Lab fee. Meets General Education requirement in Natural Sciences.

PHYS 2840  Physics III  
Capacitance, the magnetic field, mechanical waves and sound, electromagnetic field and waves, nature and propagation of light, geometrical and physical optics, and an introduction to atomic and nuclear physics. Certain aspects of quantum theory and relativity, if time permits. (4 cr. hrs.) (Spring). Prerequisites: PHYS 2830 and concurrently taking MATH 2620. Lecture/laboratory. Lab fee. Meets SUNY General Education requirement in Natural Sciences.

PSYC 1101  Introduction to Psychological Science  
An introduction to psychology. Includes scientific method, measurement in psychology, motivation, learning, thinking and problem solving, perception, behavior disorders and varieties of treatment, biological basis of behavior, social determinants of behavior, human development and personality. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to enroll in ENGL 1010. Lectures/demonstrations/discussion/field assignments. Meets SUNY General Education requirement in Social Sciences.

PSYC 1620  Honors Introduction to Psychological Science  
An advanced introduction to Psychology. Includes scientific method, measurement in psychology, biological bases of behavior, motivation and emotion, learning, memory, thinking, intelligence, individual differences and assessment. Extensive reading, conduct of an experiment and presentations are required. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to enroll in ENGL 1010 and entering freshmen with a high school GPA of at least a 3.5 and CCC students with an overall GPA of at least a 3.5 and at least 12 completed credit hours. Lectures, readings, discussions, field assignments, an experiment. Cannot earn credit for this course and PSYC 1101. Meets CCC General Education requirements in the Social Sciences.

PSYC 2030  Organizational Behavior  
Psychological analysis of human behavior in formal organizations. Structure of organizations, worker motivation, communication, leadership, and organizational change. (3 cr. hrs.) (Fall, Spring). Prerequisite: PSYC 1101. Online component included as part of this course. Upper-level course.

PSYC 2201  Social Psychology  
Relationships between the individual and social environment. Formations of attitude, group process and structure, prejudice, and the relationship of the developing individual to sociocultural systems. (3 cr. hrs.) (Fall, Spring). Prerequisite: PSYC 1101. Writing process. Upper-level course. Meets SUNY General Education requirement in Social Sciences.

PSYC 2206  Research Methods in the Social Sciences  
An introduction to major research methods. Includes survey, experimental, and field research. The logic, design, and execution of the research process with concern for elementary data analysis. Evaluation of social science research for scientific rigor, usefulness, relevance, and ethics. (3 cr. hrs.) (Spring). Prerequisite: ENGL 1010; MATH 1215; and either PSYC 1101 or SOCI 1010. MATH 1310 is also recommended. Cannot earn credit for this course and SOCI 2060. Upper-level course.

PSYC 2207  Child Psychology  
Human growth and change from conception through middle childhood. Critical theoretical and methodological issues; concentration on physical, cognitive and psychosocial development. includes a research project based on observation of children. (3 cr. hrs.) (Fall, Spring). Prerequisite: PSYC 1101. Lectures/observations in child behavior. Upper-level course. Meets SUNY General Education requirement in Social Sciences.

PSYC 2208  Adolescent Psychology  
Basic psychological processes such as motivation, intelligence, learning, and social relationships of the adolescent. Theories from psychology, sociology, social psychology, and cultural anthropology in explanation of the transition from child to adult in our culture. Emphasis on identity development, values clarification, and coping skills. (3 cr. hrs.) (ASN). Prerequisite: PSYC 1101. Writing process. Upper-level course. Meets SUNY General Education requirement in Social Sciences.

PSYC 2209  Psychology of Adult Development  
Development, change and adjustment during early, middle and late adulthood. Dynamics of the life cycle, psychological and biological determinants of adult development, adjustment to work and retirement, the aging process, and societal forces affecting growth of the mature personality. (3 cr. hrs.) (ASN). Prerequisite: PSYC 1101. Writing in content area. Upper-level course.

PSYC 2212  Educational Psychology  
Introduction to educational theory and practice. Emphasis on recent developments in theories of learning, maturation, and motivation. Methods of pupil assessment and evaluation included. (3 cr. hrs.) (ASN). Prerequisite: PSYC 1101. Upper-level course. Meets SUNY General Education requirement in Social Sciences. This course has an Internet component.

PSYC 2214  Health Psychology  
An introduction to an emerging field that studies the ways in which the discipline of psychology contributes to the promotion and maintenance of health, the prevention and treatment of illness, and the development of policies that contribute to the improvement of health in the community. (3 cr. hrs.) (ASN). Prerequisite: PSYC 1101. Writing process. Upper-level course. Meets SUNY General Education requirement in Social Sciences.

PSYC 2215  Abnormal Psychology  
Historical concepts of abnormal behavior and current theoretical perspectives including: behavioral, psychodynamic, existential and neuroscience perspectives. Includes stress related anxiety, emotional, social, psychotic, organic, and developmental disorders; individual, group, family, community, and biological therapy. (3 cr. hrs.) (Fall, Spring). Prerequisite: PSYC 1101. Writing process. Upper-level course. Meets SUNY General Education requirement in Social Sciences.

PSYC 2221  Behavior Modification  
Principles of learning (respondent and operant conditioning), and their application to analyze and modify everyday behaviors. Use of this technology to observe, record, analyze, and modify behaviors encountered in a variety of work experiences such as teaching, nursing, criminal justice, human services, and counseling psychology. Includes a personal behavior modification research project. (3 cr. hrs.) (ASN). Prerequisite: PSYC 1101. Lecture/ behavior exercises internet component. Upper-level course. Meets SUNY General Education requirement in Social Sciences.
RUSS  Russian
Division of Humanities and Social Sciences
Faculty: Michael Beykirch

RUSS 1010  Elementary Russian I
Everyday Russian vocabulary and expressions. Listening, comprehension, speaking ability, and extensive practice in reading and writing the Cyrillic alphabet. For students with little or no background in the language. (4 cr. hrs.) (ASN). Not intended for students with high school Regents credit or equivalent in Russian. Lecture/recitation/laboratory. Meets SUNY General Education requirement in Foreign Language.

RUSS 1020  Elementary Russian II
Additional practice in conversation, development of reading and writing skills, and systematic study of Russian grammar. (4 cr. hrs.) (ASN). Prerequisite: RUSS 1010 or equivalent. Lecture/recitation/laboratory. Meets SUNY General Education requirement in Foreign Language.

RUSS 2010  Intermediate Russian
Development of greater facility in reading, writing, speaking and understanding the language through systematic review of its structures. (4 cr. hrs.) (ASN). Prerequisite: RUSS 1020 or equivalent. Lecture/recitation/laboratory. Upper-level course. Meets SUNY General Education requirement in Foreign Languages.

SCIN  Science, General
Division of STEM

SCIN 1070  Sustainability & Natural History of Spencer Crest Nature and Research Center
This course surveys the natural history of Spencer Crest Nature and Research Center, with particular attention paid to various ecosystems, biodiversity, ponds, streams, and deciduous forests, as they apply to Spencer Crest. Students perform field work to identify common plant and animal species. Students will also take part in several presentations related to various aspects of sustainability and alternative energy, as well as learn the background of Spencer Crest and how current educational programs are conducted. (1 cr. hr.) (Spring). Lecture/participation/field notebook. A free elective only.

SCIN 1080  Field Experiences at Spencer Crest Nature and Research Center
This course provides students with the opportunity to gain real-world science experience. The student will work as a volunteer at Spencer Crest Nature and Research Center. Within this capacity, his or her work will focus on one or two specific projects of interest to the student and the Center. These projects require background research, specific planning, implementation, and final analysis. The student will also develop leadership skills and become a resource for the community. (2 cr. hrs.) (ASN). Prerequisite: SCIN 1070.

SCIN 1110  Physical Sciences
Develops a comprehensive understanding of the fundamental principles of physics, astronomy, geology, meteorology, and oceanography. Designed for students planning to transfer as Childhood Education Majors. Selected topics comply with the learning standard established for science curricula in New York State. (3 cr. hrs.) (Fall). Prerequisite: MATH 1130 or higher; Eligible to take ENGL 1010. Cannot receive credit for this course and ERTH 1010. Not for science majors. Lecture/lab/recitation. Lab fee. Meets SUNY General Education requirement for Natural Sciences.

SCIN 1120  Natural Sciences
Develops a comprehensive understanding of the fundamental principles of chemistry and biology. Designed for students planning to transfer as Childhood Education majors, but can comply with the learning standards established for science curriculum in the State of New York. (3 cr. hrs.) (Spring) Prerequisite: MATH 1130 or higher; eligible to take ENGL 1010. Not for science majors. Lecture/lab/laboratory/recitation. Lab fee.

SIGN  Sign Language
Division of Humanities and Social Sciences

SIGN 1010  American Sign Language I
Development of conversational fluency in ASL. Students will accurately recognize and produce ASL with appropriate non-manual behaviors and grammatical features. Development of linguistic/cultural behaviors conducive to the deaf community and awareness of, and respect for deaf culture. Receptive and expressive skills are fostered. (4 cr. hrs.) (ASN). Prerequisite: Eligible to enroll in ENGL 1010. Lecture/laboratory. Meets SUNY General Education requirement in Foreign Language. Students who transfer to programs leading to certification in elementary and secondary education or to careers in health or social service agencies where there is likely to be significant contact with the hearing-impaired.

SIGN 1020  American Sign Language II
Continued development of conversational fluency in ASL. Emphasis on the production and comprehension of increasingly complex linguistic expressions through dialogue and conversation. More complex receptive and expressive skills are fostered through interactive ASL lessons and participatory activities. (4 cr. hrs.) (ASN). Prerequisite: SIGN 1010. Lecture/laboratory. Meets CCC General Education requirement in Foreign Language for students who transfer to programs leading to certification in elementary and secondary education or to careers in health or social service agencies where there is likely to be significant contact with the hearing-impaired.

SIGN 2010  American Sign Language III
Continued focus on specific grammatical and cultural topics using non-manual signals and markers. Emphasis is on greater fluency in idiomatic language usage and mastery of vocabulary and syntax. Skill is enhanced through in-class interactions with native language users. (4 cr. hrs.) (ASN). Prerequisite: SIGN 1020. Lecture/laboratory. Meets CCC General Education requirement in Foreign Language for students who transfer to programs leading to certification in elementary and secondary education or to careers in health or social service agencies where there is likely to be significant contact with the hearing-impaired.

SIGN 2020  American Sign Language IV
Continued development of grammatical features of ASL, specialized vocabulary and the use of locatives, numbers and fingerspelling. The use of space in ASL discourse will be expanded. Deaf culture will continue to be focused. (4 cr. hrs.) (ASN). Prerequisite: SIGN 2010. Lecture/laboratory. Meets CCC General Education requirement in Foreign Languages for students who transfer to programs leading to certification in elementary and secondary education or to careers in health or social service agencies where there is likely to be significant contact with the hearing-impaired.

SOCI  Sociology
Division of Humanities and Social Sciences
Faculty:

SOCI 1010  Introduction to Sociology
Social and cultural factors in the origin, structure, and functioning of group life. Sub-divisions to be emphasized include social structure, culture, socialization, institutions, and stratification. (3 cr. hrs.) (Fall, Spring) Prerequisite: Eligible for ENGL 1010. Meets SUNY General Education requirement in Social Sciences.

SOCI 2000  Social Problems
Contemporary social problems from the perspective of sociology. Analysis of deviant behavior, war and terrorism, race relations, crime, poverty, and illness. (3 cr. hrs.) (Spring). Prerequisites: SOCI 1010 and ENGL 1010. Writing process. Upper-level course. Meets SUNY General Education requirement in Social Sciences.
SOCI 2030  The Family
American family and cross-cultural family patterns in a rapidly changing world. Topics include dating and cohabitation, couple communication, marriage, family conflict/violence, divorce, stepfamilies, birth technologies & adoption, and parenting in a diverse society. (3 cr. hrs.) (Fall, Spring). Prerequisite: SOCI 1010 or PSYC 2201. Writing process. Upper-level course. Meets SUNY General Education requirement in Social Sciences.

SOCI 2060  Research Methods in the Social Sciences
An introduction to major research methods. Includes survey, experimental, and field research. The logic, design, and execution of the research process with concern for elementary data analysis. Evaluation of social science research for scientific rigor, usefulness, relevance, and ethics. (3 cr. hrs.) (Spring). Prerequisites: ENGL 1010, MATH 1215, and either PSYC 1101 or SOCI 1010. MATH 1310 also recommended. Cannot earn credit for this course and PSYC 2206. Upper-level course. Meets SUNY General Education in Social Sciences.

SOCI 2210  Diversity and Discrimination in American Society
Diversity and dominant-minority relations in the United States; development of sociological theory and the trends and policies that may reduce or produce structural and personal discrimination by race/ethnicity, gender, age or sexual orientation. (3 cr. hrs.) (Fall, Spring). Prerequisite: SOCI 1010, or PSYC 1101 or HIST 1110 or HIST 2090. Upper-level course.

SOCI 2310  Criminology/Sociology of Crime and Delinquency
An examination of criminal and delinquent behavior in the United States, and its descriptive, empirical, and theoretical explanations. Social control in society, the major theoretical perspectives in the field, and developing theories and issues. Topics include the definition and measurement of crime, types of crime, theories of crime causation and social policy issues involving crime prevention. (3 cr. hrs.) (Fall, Spring). Prerequisite: SOCI 1010. Upper-level course. Meets SUNY General Education requirement in Social Sciences.

SOCI 2400  Environment and Society
Focuses the tools of environmental sociology and social theory, using both classical and modern sociology to explain and analyze social behavior and its relationship to nature. Students use these tools to examine local issues. (3 cr. hrs.) (Spring). Prerequisite: SOCI 11010. Upper-level course.

SPAN  Spanish
Division of Humanities and Social Sciences
Faculty: Michael Beykirch, Sandra Turner-Vicioso

SPAN 1010  Elementary Spanish Conversation and Structure I
Spanish vocabulary and expressions. Listening comprehension, speaking ability, reading and writing. For students with little or no background in the language. (4 cr. hrs.) (Fall). Not intended for students with high school Regents credit or equivalent in Spanish. Lecture/recitation/laboratory. Meets SUNY General Education requirement in Foreign Languages.

SPAN 1020  Elementary Spanish Conversation and Structure II
Additional practice in conversation, the development of reading and writing skills, and a systematic study of Spanish grammar. (4 cr. hrs.)(Spring). Prerequisite: SPAN 1010 or equivalent or two years of high school Regents Spanish. Lecture/recitation/laboratory. Meets SUNY General Education requirement in Foreign Languages.

SPAN 1050  Spanish Field Study Trip
Two-week study trip to Madrid, Spain. Daily classes in Spanish grammar and conversation with native Spanish instructors. Students reside in a student residence or may live with Spanish families. Excursions to cultural sites. Designed for students with or without previous knowledge of Spanish. (3 cr. hrs.) (Summer).

SPAN 2010  Intermediate Spanish
Development of facility in reading, writing, speaking, and understanding the language through a systematic review of its structure. Representative readings as an introduction to Spanish civilizations. (4 cr. hrs.) (Fall). Prerequisite: SPAN 1020 or equivalent of three years of Regents high school Spanish. Lecture/recitation/laboratory. Upper-level course. Meets SUNY General Education requirement in Foreign Languages.

SPAN 2020  Composition and Conversation
A thorough analysis of the language; intensive discussion of grammar, usage, style and vocabulary, enhancing expression through composition, oral reports, and more informed class discussions and conversations. (4 cr. hrs.) (ASN). Prerequisite: SPAN 2010 or equivalent. Lecture/recitation/laboratory. Essential for Spanish majors who plan to take upper-level language and literature studies. Upper level-course.

SPAN 2300  Spanish Conversations and Culture
Advanced conversation and discussion of a wide variety of topics concerning Hispanic countries and their cultures, derived from authentic Spanish-language material, both written and oral. Consolidation of speaking, writing and critical-thinking skills. Review and refinement of grammar as a function in oral Spanish. (3 cr. hrs.) (ASN). Prerequisites: ENGL 1010, SPAN 2020 or equivalent. Upper-level course. Meets CCC General Education requirement in Foreign Languages. Also fulfills 2000-level English requirements.

SPAN 2310  Brief Introduction to Spanish Literature
Advanced study in the language with an introduction to serious readings of some of the great writers of literature. Conveys ideas and develops the ability to exchange ideas through writing and discussion in the language. (3 cr. hrs.) (ASN). Prerequisites: ENGL 1010, SPAN 2020 or equivalent. Upper-level course. Meets SUNY General Education requirement in Foreign Languages. Also fulfills 2000-level English requirement.

SPCH  Speech
Division of Humanities and Social Sciences
Faculty: Daniel Coble, Ryan Hersha

SPCH 1060  Interpersonal Communication (Individual)
Develops self-awareness and audience awareness by communicating interpersonally. Exercises reflect all components of interpersonal interactions: verbal, nonverbal, paralinguistic, emotional, visual, relational, cultural. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to enroll in ENGL 1010. Writing in content area. Lecture/presentations.

SPCH 1080  Public Speaking
Develops self-awareness and audience awareness through oral presentation. Organize and present material in a variety of speaking occasions, including information, visualization, demonstration, argumentation, persuasion. (3 cr. hrs.) (Fall, Spring). Lecture/presentations.

SUST  Sustainability Studies
Division of Professional Studies

SUST 1000  Introduction to Sustainability
This course introduces students to the foundations of sustainability. In the course students will explore the interdisciplinary nature of environmental issues and apply problem solving models from various disciplines. In this hands-on course, students in this course will be asked to apply their knowledge to current environmental issues and to model sustainable behavior. (3 cr. hrs.) (Fall, Spring)
TECH  Technology – General

Division of STEM

TECH 1030 Manufacturing Methods
A study of the machines and methods by which various materials are formed into useful products. Topics will include principles of manufacturing, materials used in manufacturing, conventional and non-traditional processes, forming, joining and assembling, finishing operations, CIM and the future technology of manufacturing. (3 cr. hrs.) (Fall, Spring). Prerequisite: Eligible to enroll in ENGL 1010

TECH 1050 Orientation to Technology
An orientation course designed to assist technology students to be successful in college. The course will include academic strategies for learning, time management, transition issues, career development and planning, computer orientation and computer skills assessment, note taking, campus familiarization, and technical communications. (0.5 cr. hr.) (ASN).

TECH 1060 LabVIEW Programming
An introduction to LabVIEW programming, editing and debugging procedures. The course emphasis is the core concepts of variables, constants, data types and flow control as related to structured programming. Applied engineering applications will be utilized that include data input and output, decision making structures, loops, and arrays. Mathematical functions are applied using Sub VI's and function node methods. (3 cr. hrs.). Prerequisite: MATH1230 or concurrent enrollment in MATH1230 or placement in MATH 1411 or higher.

TECH 1080 Manufacturing Methods Lab
Basic and advanced metal-cutting processes with related lab experience. Use of hand tools, selection of feeds and speeds; gauging and precision measurements; and the operation of basic shop equipment including drill presses, saws, manual lathes and milling machines, grinders and basic CNC milling machines. Identification, demonstration and application of machine shop safety equipment and procedures. Develops a technician’s appreciation of, rather than proficiency in, operations of machine tools. (1 cr. hr.) (Fall, Spring). Does not have to be taken concurrently with TECH 1030. Lab Fee.

TECH 1110 Technical Word Processing & Research
Use of word processing functions for technical applications. Includes functions essential for laboratory report writing, such as formatting of text, numbered and bulleted lists, tables, cover pages, table of contents, headers and footers, inserting graphics and annotation, special symbols and equations. (1 cr. hr.) (Fall, Spring). Slideshow lectures and assignments will be delivered and submitted online.

TECH 1120 Spreadsheet Applications in Technology
Use of spreadsheet functions for technical applications. Includes functions such as print settings and page setup, experimental data entry, worksheet manipulation and formatting, mathematical formulas and functions, XY Scatter charts and trend line column and pie charts. (1 cr. hr.) (Fall, Spring). Slideshow lectures and assignments will be delivered and submitted online.

TECH 1130 Industrial Presentations
Use of software to design technical presentations. Includes design outline and layout appropriate for a presentation in an industrial setting, template selection and creation, master slide creation, inserting text, lists, CAD drawings, schematics, data sheets, graphs, and equations. Special emphasis is given to presentation methods appropriate for industry. Students will be required to give presentations in a simulated industrial setting. (1 cr. hr.) (ASN). Slideshow lectures and assignments will be delivered and submitted online.

THEA  Theatre

Division of Humanities and Social Sciences
Faculty: Mary Guzy

THEA 1010 Introduction to Theatre
Presents theatre as an all-encompassing art form. Surveys the history of theatre and the diversity of theatrical genres from story-telling to 21st century. ‘Realism’ to performance art. Studies dramatic literature as it relates to practical theatrical production. Examines the collaborative process leading to production. Students present a full production or production plan as a final project. (3 cr. hrs.) (Fall) Meets SUNY General Education Requirement in the Arts, Humanities, and Western Civilization.

THEA 1020 Introduction to Acting
An introduction to the art and craft of performance. Considers contemporary approaches to the craft. Emphasis on acting exercises and basic principles of the actor’s process: centering, focus, breathing, vocal energy, stimulation of the imagination, listening, memorization techniques, harnessing the state of play, the collaborative nature of acting. Introduction to character analysis, monolog, scene study, finding audition materials. (3 cr. hrs.) (Fall and Spring). Meets SUNY General Education requirements in the Arts.

THEA 1030 Introduction to Technical Theatre
An introduction to the technical aspects of theatrical production, including principles of stagecraft, lighting, sound, stage props, and costuming, stage crew organization and responsibilities and theatre safety. Hands-on experience in constructing and running productions in weekly lab work and serving on stage crews for theatre productions. (3 cr. hrs.) (ASN).

THEA 1040 Voice and Movement
For actors working toward development of a free, flexible voice. Techniques of movement and vocal production. Introduction to the International Phonetic Alphabet and dialect. (3 cr. hrs.) (ASN). Meets SUNY General Education requirement in the Arts.

THEA 1050 Broadway Styles of Dance
Students will be exposed to a wide variety of styles representative of the diverse range of dancing used on the Broadway stage, including original choreography and audition combinations from various shows. Students experience a range of styles, as well as execution improvisation and increased awareness of performance. (3 cr. hrs.).

THEA 2020 Theatre History I
The history of theatre from its origins through the 19th century, tracing theatre architecture and technology, and changes in western theatre performance styles and conventions. Pre-requisite: eligible to enroll in ENGL 1010. (3 cr. hrs.) (Fall) Meets SUNY General Education requirements in the Arts and Humanities.

THEA 2030 Audition Preparation
Researching, selecting, editing, memorizing, staging, and performing audition material from classical, contemporary, comic, and serious literature for a variety of audition situations, including competitive academic or professional theatre/film programs and productions, as well as community theatre. For actors serious about getting work in competitive markets. (1 cr. hr.) (ASN). Prerequisite: Instructor consent or successful completion of THEA 1020. Upper-level course.
THEA 2110 Introduction to Makeup for the Actor
Basic application and use of stage make-up. Hands-on experience creating age, character, animal and fantasy makeup. (3 cr. hrs.) (ASN) Upper level course. Meets SUNY General Education requirement in the Arts.

THEA 2220 Advanced Acting
Introduction to the major acting theories of the 19th-21st centuries. Intensive scene study and introduction to acting classical texts. Emphasis on script analysis, characterization, and handling complex language in performance. (3 cr. hrs.) (Spring) Prerequisite: THEA 1020 or permission of instructor. Upper level course. Meets SUNY General Education requirement in the Arts.

THEA 2240 Script Analysis
Introduces approaches to theatrical research for the director, actor, and designer. Examines dramatic texts of various theatrical periods with emphasis on genre, elements of dramatic structure, and artistic collaboration. Scripts are read and broken down into performance, design and directorial/dramaturgical elements and examined both individually and in terms of their interaction with other elements of production. Prerequisite: Eligible for ENGL 1010. Upper level course. (3 cr. hrs.) (ASN).

THEA 2501 Special Topics – Applied Theatre
An in-depth examination of the application of theatrical skills, exercises, and dramatic forms in non-theatrical venues such as classrooms, hospitals, churches, etc. Students explore devising theatrical events with and for non-actors, partnering with community organizations in theatrical projects, and applying theatre across disciplines for counseling, teaching and learning. (3 cr. hrs.) (ASN). Meets SUNY General Education requirements in Humanities.

THEA 1100, 1101, 1110, 2101, 2102, 2111, 2112 – Rehearsal, Performance, Production (Theatre Practicum)
Practical application of acting and production techniques, i.e., acting, stage managing, backstage operation, set construction, house management, costume and makeup. 45 – 90 faculty-supervised hours of rehearsal and performance of productions. Prerequisite: Instructor consent or successful completion of THEA 1010 or 1020. (1 or 2 cr. hrs.) (Fall and Spring).

WELL Wellness
Division of Professional Studies
Faculty: Elaine Corwin

WELL 1000 Introduction to Wellness
Awareness and participation in a positive, balanced wellness lifestyle. Dimensions of wellness, health related assessments, and the development of personal wellness action plan. (1 cr. hr.) (ASN). Cannot earn credit for this course if you already have credit for HLTH 1207.

WELL 1001 Principles of Getting Fit
For those who need to begin an exercise program. Focus on low stress exercise. Physical and emotional changes that exercise produces, proper methods of exercise, and techniques for maintaining a program once started. (1 cr. hr.) (ASN). Internet. Will include some movement. Street clothes acceptable.

WELL 1003 Quit Smoking Your Way
A variety of strategies for expanding the personal range of options in planning a self-designed smoking cessation program. (1 cr. hr.) (ASN).

WELL 1005 Learning to Meditate
Explore and practice a variety of meditative techniques and develop a personalized program to improve attention and alleviate stress symptoms. (1 cr. hr.) (Fall, Spring).

WELL 1006 Guided Imagery for Health Enhancement
Explore and practice a variety of visualization techniques which have been demonstrated to have direct, positive effects on health and well-being. (1 cr. hr.) (ASN).
# Building Codes

The following chart includes the former building code (prior to 2018) with the current building code.

<table>
<thead>
<tr>
<th>Former Building Code</th>
<th>New Building Code</th>
<th>Building Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>ADM</td>
<td>Parson’s Administration</td>
</tr>
<tr>
<td>T</td>
<td>ACP</td>
<td>Airport Corporate Park</td>
</tr>
<tr>
<td>U</td>
<td>ELM</td>
<td>Academic &amp; Workforce Development Center</td>
</tr>
<tr>
<td>O</td>
<td>OBS</td>
<td>Observatory</td>
</tr>
<tr>
<td>E</td>
<td>PLN</td>
<td>Planetarium</td>
</tr>
<tr>
<td>V</td>
<td>SPN</td>
<td>Spencer Crest Nature and Research Center</td>
</tr>
<tr>
<td>K</td>
<td>CER</td>
<td>Ceramics</td>
</tr>
<tr>
<td>Q</td>
<td>AUT</td>
<td>Auto Tech Buildings</td>
</tr>
<tr>
<td>PH</td>
<td>PH</td>
<td>Perry Hall</td>
</tr>
<tr>
<td>N</td>
<td>STU</td>
<td>Steuben Hall (former Nursing)</td>
</tr>
<tr>
<td>C or R</td>
<td>CHM</td>
<td>Chemung Hall (former Classroom or Learning Resource Center)</td>
</tr>
<tr>
<td>S</td>
<td>SCH</td>
<td>Schuyler Hall (former Science)</td>
</tr>
<tr>
<td>M</td>
<td>COM</td>
<td>Commons</td>
</tr>
<tr>
<td>G</td>
<td>GYM</td>
<td>Gymnasium</td>
</tr>
<tr>
<td>HEC</td>
<td>HEC</td>
<td>Health Education Center</td>
</tr>
<tr>
<td>L</td>
<td>LIB</td>
<td>Library</td>
</tr>
<tr>
<td>Y</td>
<td>Y</td>
<td>High School – ACE Program</td>
</tr>
<tr>
<td>Z</td>
<td>Z</td>
<td>Off Campus Location (see next page)</td>
</tr>
</tbody>
</table>

## ACE High School Codes

- Y0002 Addison Central School
- Y0004 Alfred-Almond High School
- Y0006 Andover High School
- Y0008 Arkport High School
- Y0110 Athens High School, PA
- Y0012 Avoca High School
- Y0013 BOCES Southern Tier Bush Campus
- Y0014 BOCES Coopers Education Center
- Y0015 BOCES Wildwood Campus
- Y0016 Bradford High School
- Y0020 Campbell Savona High School
- Y0022 Canaseraga High School
- Y0024 Canisteo-Greenwood High School
- Y0025 Canton High School
- Y0029 Corning-PP High School
- Y0030 Cowanesque Valley High School, PA
- Y0037 Elmira High School
- Y0039 Galeton High School, PA
- Y0041 Genesee Valley High School
- Y0184 Goshen High School
- Y0044 Hammondsport High School
- Y0046 Haverling High School
- Y0048 Hornell High School
- Y0050 Horseheads High School
- Y0054 Jasper-Troupsburg High School
- Y0165 North-Penn Liberty High School, PA
- Y0168 North Penn-Mansfield High School, PA
- Y0060 Northern Potter High School, PA
- Y0058 Notre Dame High School
- Y0062 Odessa-Montour High School
- Y0066 Prattsburgh High School
- Y0170 Sayre High School, PA
- Y0074 Spencer-VanEtten High School
- Y0078 Thomas A Edison High School
- Y0077 Towanda High School
- Y0079 Twin Tiers Christian Academy
- Y0082 Watkins Glen High School
- Y0080 Waverly High School
- Y0179 Wayland-Cohocton High School
- Y0181 Wellsville High School
- Y0182 Whitesville
- Y0180 Williamson High School, PA
- Y0185 Wyalusing High School
Course Locations
(Courses that meet at locations other than CCC designated campus sites are designated with a room code starting with a “Z”).

Z1402 Corning-Painted Post Middle School, Victory Highway, Painted Post
Z1403 Arbor Development, 26 S. Bridge St., Corning
Z1404 GST BOCES-Coopers Campus, 9579 Vocational Dr. Painted Post
Z1406 Elmira High School, 777 South Main St., Elmira
Z1409 Corning-Painted Post High School, 201 Cantigney St., Corning
Z1410 Horseheads High School, 401 Fletcher St., Horseheads
Z1414 Arnot Ogden Medical Center, 600 Roe Avenue, Elmira
Z1416 Ernie Davis Academy, 933 Hoffman St., Elmira
Z1417 GST BOCES, Wildwood Campus, 1126 Bald Hill Road, Hornell
Z1418 Chemung County DSS, 425 Pennsylvania Avenue, Elmira
Z1423 Hornell High School, 134 Seneca St., Hornell
Z1424 Guthrie Corning Hospital, 1 Guthrie Drive, Corning
Z1425 Ira Davenport Hospital, 7571 State Route 54, Bath
Z1426 Schuyler Hospital, 220 Steuben Street, Montour Falls
Z1427 St. Joseph's Hospital, 555 East Market Street, Elmira
Z1428 Robert Packer Hospital, Guthrie Square, Sayre, PA
Z1429 Arnot Ogden Medical Center, Clute Building, Ivy Street, Elmira
Z1430 Schuyler County Headstart, 323 Owego St., Montour Falls
Z1431 Crystal Lanes, Route 352, East Corning
Z1432 Haverling High School, 25 Ellas Street, Bath
Z1433 Waverly High School, 1 Frederick Street, Waverly
Z1459 171 Cedar Arts Center, 171 Cedar Street, Corning
Z1460 Notre Dame High School, 1400 Maple Avenue, Elmira
Z1472 Watkins Glen High School, 301 12th St., Watkins Glen
Z1476 Corning Museum of Glass, 1 Museum Way, Corning
Z1493 Southern Tier Hospice, 3805 Meads Creek Rd., Painted Post
Z1543 Campbell-Savona Central School, 8455 Co. Rd. 125, Campbell
Z1546 Guthrie Troy Hospital, 275 Guthrie Dr., Troy, PA
Z1552 Spencer VanEtten High School, 16 Dartts Cross Rd., Spencer
Z1557 Corning YMCA, 127 Centerway, Corning
Z1558 Nicholas Noyes Memorial Hospital, 111 Clara Barton St., Dansville
Z1593 Southeastern Steuben Library, 300 Nasser Civic Ctr. Plaza, Corning
Z1595 Fassett School, 309 W. Thurston St., Elmira
Z1601 Corning, Inc.-Sullivan Park, 21 Lynn Morse Rd., Painted Post
Z1610 YWCA Elmira & The Twin Tiers, 211 Lake St., Elmira
Z1635 Elmira Correctional Facility, 1879 Davis St., Elmira
Z1636 Cayuga Medical Center, 101 Dates Dr., Ithaca

Satellite Campuses
Airport Corporate Park
360 Daniel Zenker Drive, Horseheads, NY 14845

Academic & Workforce Development Center
318 Madison Avenue, Elmira, NY 14901

Health Education Center
132 Denison Parkway East, Corning, NY 14830
### Appendix: Fire Courses available for Life Experience Credit

**Subject: FIRE Fire Science**  
Division of Professional Services

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE 1100</td>
<td>Introduction to Fire Prevention</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE 1010</td>
<td>Emergency Medical Technician</td>
<td>8.0</td>
</tr>
<tr>
<td>FIRE 1058</td>
<td>Firefighter Survival</td>
<td>0.5</td>
</tr>
<tr>
<td>FIRE 1059</td>
<td>Firefighter Assist &amp; Search</td>
<td>1.0</td>
</tr>
<tr>
<td>FIRE 1060</td>
<td>Health &amp; Safety Officer</td>
<td>1.0</td>
</tr>
<tr>
<td>FIRE 1063</td>
<td>Highway Safety for Emergency Responders</td>
<td>1.0</td>
</tr>
<tr>
<td>FIRE 1121</td>
<td>Firefighter I</td>
<td>5.0</td>
</tr>
<tr>
<td>FIRE 1136</td>
<td>Apparatus Operator: Emergency Vehicle Op</td>
<td>1.0</td>
</tr>
<tr>
<td>FIRE 1151</td>
<td>Basic Structural Collapse Operations</td>
<td>0.5</td>
</tr>
<tr>
<td>FIRE 1152</td>
<td>Principles of Building Construction: Noncombustible</td>
<td>1.0</td>
</tr>
<tr>
<td>FIRE 1153</td>
<td>Principles of Building Construction: Combustible</td>
<td>1.0</td>
</tr>
<tr>
<td>FIRE 1251</td>
<td>Hazardous Materials Technician – Basic</td>
<td>2.5</td>
</tr>
<tr>
<td>FIRE 1260</td>
<td>Computer-Aided Management of Emergency Operations (CAMEO)</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE 1301</td>
<td>Introduction to Code Enforcement Practices</td>
<td>4.5</td>
</tr>
<tr>
<td>FIRE 1400</td>
<td>Principles of Fire Investigation</td>
<td>1.5</td>
</tr>
<tr>
<td>FIRE 1500</td>
<td>Fire Service Instructor I</td>
<td>3.0</td>
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<tr>
<td>FIRE 1621</td>
<td>Introduction to Fire Officer</td>
<td>1.5</td>
</tr>
<tr>
<td>FIRE 1622</td>
<td>Fire Officer I</td>
<td>1.5</td>
</tr>
<tr>
<td>FIRE 1701</td>
<td>Rescue Technician – Basic</td>
<td>1.5</td>
</tr>
<tr>
<td>FIRE 1730</td>
<td>Accident Victim Extrication Training</td>
<td>1.0</td>
</tr>
<tr>
<td>FIRE 1771</td>
<td>Confined Space Rescue</td>
<td>1.5</td>
</tr>
<tr>
<td>FIRE 2121</td>
<td>Firefighter II</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE 2131</td>
<td>Truck Company Operations</td>
<td>1.5</td>
</tr>
<tr>
<td>FIRE 2132</td>
<td>Apparatus Operator: Pump</td>
<td>1.5</td>
</tr>
<tr>
<td>FIRE 2133</td>
<td>Apparatus Operator: Aerial Device</td>
<td>1.5</td>
</tr>
<tr>
<td>FIRE 2300</td>
<td>Inspection of Existing Structures</td>
<td>1.5</td>
</tr>
</tbody>
</table>
Rights, Responsibilities and Other Important Information

You should carefully review the following information which outlines some of the rights and responsibilities which affect you while you are a student at CCC. These policies and procedures are designed to serve you so that your educational experiences may be safe, orderly and free from unnecessary obstacles. Some of these policies are written out completely in this section; others are summarized due to their length.

Academic Honesty

The principles of integrity, respect and ethical behavior are long standing traditions at CCC. It is expected that all students will recognize these values and adhere to all aspects of student conduct and academic honesty inside and outside of the class-room. The act of academic dishonesty is one in which a student is trying to gain an unfair academic advantage or is avoiding actions required by a course, which have been designed to improve some aspect of the student’s education.

Knowingly and willfully aiding or collaborating with a student in the violation of an Academic Honesty policy, even if not personally committing any violation, is considered academic dishonesty. The following list describes various instances or actions that the College considers to be acts of academic dishonesty. While trying to be thorough, this list is not absolute. It is up to the practical judgment of faculty and students to consider cases that are not included here.

Examples of Violations of Academic Honesty include, but are not limited to the following:

- Plagiarism occurs when a person presents another’s ideas, information, words, artwork, films, music, graphs, images, data or statistics as if they were his or her own creation. Plagiarism is a form of theft and is cheating.
- When a person copies material from a published source, such as a periodical, encyclopedia, book or downloads a passage from an Internet source and presents that information without proper documentation (reference or quotation) in a paper or project, then that person has committed plagiarism. Even if the content or wording has been slightly changed, a little plagiarism is still plagiarism. If a person submits a paper or project in satisfaction of a course assignment that was authored or researched in part or in whole by someone else, then that person is guilty of plagiarism.
- Using prohibited materials such as the use of other students’ work, past papers, reports or lab documents without the specific permission of the instructor.
- Using notes or information in any form when not specifically permitted. Using programming functions of calculators, memory in PDA’s, cell phones, laptops or any other handheld computing device without authorization from the instructor.
- Gaining or providing unauthorized assistance on term papers, reports, projects, research data, take-home tests, quizzes or homework turned in for grading.
- Having another person represent himself or herself as you during a course, examination or activity.
- Receiving information from another student or communicating in any way during an examination, quiz or other course activity when not authorized by the instructor.
- Stealing or otherwise receiving information, questions or answers for an examination, quiz or other course activity when not authorized by the instructor.
- Intentionally impairing the work of another student or instructor.
- Forging or altering college records or documents.

When a violation of the Academic Honesty policy is suspected, it is the instructor’s responsibility to investigate the incident and determine the severity and intent of the violation. The actions an instructor may take include, but are not limited to: discussing the incident with the student in question, discussing the incident with other students, literary or document research, requesting additional information or supporting documents. This investigation must be done in a timely fashion but has no limits based on the nature of the investigation. If the instructor concludes that an offense has occurred, the instructor will determine an appropriate penalty using his or her judgment as to the severity and intention of the infraction. Because the instructor will typically not be aware of a student’s behavior or violations to CCC policy in previous or concurrent courses, the penalty will be assessed by the instructor based on the student’s activity and conduct in this course alone.

Examples of penalties include, but are not limited to the following:

- Receiving a verbal warning
- Receiving a written warning
- Partial grade out of the total possible for the assignment
- Recreate or retake an assignment or assessment activity
- Receiving a zero or F on an assignment or assessment activity
- Expulsion from and receiving an F grade for the course

Documentation of the academic honesty violation should be forwarded to the Office of the Provost. If a student disagrees with an instructor’s findings regarding a violation of the Academic Honesty policy, he or she may follow the steps outlined for disputing a grade under Grading Practices (in the Academic Policies and Procedures section of the Course Catalog). This process is intended to allow the student to address the dispute in an organized manner and through several levels of CCC’s organization. If, after proceeding through this process, the matter has not been resolved to the satisfaction of the student, he or she may request a hearing before the Provost. The process is detailed under the Student Code of Conduct below.

Alcohol Use Policy

The College recognizes the reality of the serious problems associated with the use of alcoholic beverages. The use of alcohol on campus is allowed by permit only, subject to the applicable provisions of New York State law. The Student Association has voted that all student activities and socials be alcohol free.

Anti-Bullying Policy

Bullying can foster a climate of fear and disrespect which seriously impairs the physical and psychological health of its victims and creates conditions that negatively affect any learning and working environment. With the proliferation of the use of electronic means of communication, bullying has transformed from a predominately school-based issue among youth to a broader societal problem affecting both youth and adults. Researchers have demonstrated that bullying has long-term consequences, particularly since bullying has now moved beyond the classroom to the Internet, athletic teams, college campuses, work places, and among the general public.

Cyber-bullying has been shown to cause significant psychological trauma to its victims. Victims suffer very real and serious harm as a result of these incidents, often showing signs of depression, anxiety, social isolation, nervousness when interacting with technology, low self-esteem, declining school and work performance, hyper-vigilance, nightmares, changed eating and sleeping habits, and fear for their safety. In extreme cases, victims attempt or commit suicide due to the cyber-bullying they have endured.
Policy Statement

Corning Community College (“the College”) is committed to maintaining an educational and work environment in which every member of the College community conducts himself/herself in a manner which demonstrates proper regard and respect for the rights and welfare of others so that everyone, including students, employees, and visitors, is treated with respect and dignity. The intended purpose of this Anti-Bullying Policy is to educate the College community about bullying and promote civility and respect among all its members. This policy applies to all members of the campus community, individuals doing business with the College, and any persons utilizing campus facilities.

Summary

Bullying is strictly prohibited on any College property; at any College function, event or activity; or through the use of any electronic or digital technology, whether or not such use occurs on College property. Any case of bullying suspected to be of a criminal nature will be referred to local law enforcement authorities.

A procedure for handling complaints under this policy has been established and is available on the College website, in the College catalog, and from the Human Resources Office.

Definitions

- Bullying: aggressive and hostile acts of an individual or group of individuals which are intended to humiliate, mentally or physically injure or intimidate, and/or control another individual or group of individuals. Bullying can occur as a single, severe incident or repeated incidents.

- Physical Bullying: pushing, shoving, kicking, poking, and/or tripping another; assaulting or threatening a physical assault; damaging a person’s work area or personal property; and/or damaging or destroying a person’s work product.

- Verbal/Written Bullying: includes ridiculing, insulting or maligning an individual, either verbally or in writing; addressing abusive, threatening, derogatory or offensive remarks to an individual; and/or attempting to exploit an individual’s known intellectual or physical vulnerabilities.

- Nonverbal Bullying: includes making direct threatening gestures toward an individual or invading personal space after being asked to move or step away.

- Cyberbullying: the bullying of an individual using any electronic form, including, but not limited to, the Internet, interactive and digital technologies, or mobile phones.

- Racist Bullying: racial taunts, graffiti or gestures; and/or a refusal to work with another individual because they are of a different culture.

- Sexual Bullying: unwanted physical contact or sexually abusive comments.

- Homophobic, Gender, and Sexual Orientation Bullying: bullying which is usually aimed at gay, lesbian, bisexual and transgender people or those with gay, lesbian, bisexual or transgender relatives/friends; and/or the use of generic insults relating to gender and/or sexual orientation.

- Stalking: continued unwanted attention through: personal contact (directly with and individual or through the individual’s friends and family); telephone calls; letters; e-mails; text messages; Internet chat rooms; and other means. Bullying does not include the following circumstances:
  - A supervisor or any person with supervisory authority reports and/or documents an employee’s unsatisfactory job performance and the potential consequences of such unsatisfactory performance; or
  - A faculty or staff member advises a student of unsatisfactory academic work and the potential for the course failure or dismissal from the program; or
  - A faculty or staff member advises a student of inappropriate behavior that may result in disciplinary proceedings.

Athlete’s Code of Conduct

Corning Community College (CCC) supports the athletic program and its enhancement of student development. All athletes competing for CCC are considered student ambassadors and must represent the highest ideals of sportsmanship, leadership, academic integrity and citizenship. This includes respect for authority including, but not limited to, officials, coaches, teammates, opposing players, instructors, classmates and/or any College employee. This also includes abstention from the use of illegal substances, alcohol, tobacco, and performance enhancing drugs while enrolled as a student athlete at CCC, not only during the season of competition.

- Alcohol, Drugs and Tobacco:
  - Any student athlete who is under the age of 21 shall not drink or possess alcoholic beverages.
  - No student athletes, regardless of age, shall compete, practice or participate in a team function while under the influence of alcohol or non-prescribed drugs.
  - The use of illegal drugs and possession of drug paraphernalia is prohibited.
  - The use of all tobacco products is prohibited on campus and in any area of any athletic venue or while traveling to and from athletic sponsored events.

- Sportsmanship/Other:
  - Swearing, taunting, racial, sexist or any derogatory remarks made to teammates, coaches, staff, officials, fans or College employees are not tolerated at any time during practice, games, or athletic travel.
  - CCC student athletes must refrain from any behavior that would reflect poorly on the College, including representation in all forms of social media; any photo or statements that represent violations to the spirit of the intent of this code will be considered violations.

- Perry Hall and Campus Conduct
  - Disrespect to fellow students, staff, faculty or other College employees is prohibited.
  - All activities as reported in incident reports from Public Safety and Residence Life will be subject to code violations and penalties, REGARDLESS of the sanctions with other groups on campus; these incidents will be investigated upon receipt of the Incident Report and are expected to receive full cooperation and honesty by the accused.

- Criminal Activity
  - Any student athlete charged with a misdemeanor or felony shall be immediately suspended from their participation pending further investigation by College officials; this includes accusations of Title IX sexual assault/conduct allegations.

Violations of Athletic Code of Conduct

- Sanctions may include the following: community service, probation, suspension (practice and/or games), removal from team permanently, and are based on the severity and prior behavior/violations; those with multiple disciplinary sanctions (more than 2) will be removed regardless of the severity of the incident.

- Each team/coach may have more extensive team rules that include zero tolerance; these rules will be provided in writing and reviewed with team members at any time after consultation with the Director of Athletics.

- A student athlete may challenge sanctions by notifying the Director of Athletics in writing, within 48 hours of sanction decision.
Behavioral Intervention Team

In order to promote the safety and well-being of our students, a Behavioral Intervention Team (BIT) has been created to address student behaviors that are disruptive, or outside the norm for a particular student. BIT will act as a review team that carefully reviews all aspects of reports that are received regarding concerning student behaviors. BIT will provide a recommendation for appropriate intervention and will serve as a resource for the College community. Any CCC community member who is concerned about a student may make a referral to BIT. For more information please refer to the website.

Computing Code of Conduct

College resources are provided to authorized individuals for the purpose of learning, teaching and conducting of business related to the operation of CCC. The College will not be held responsible for unacceptable, unethical or illegal use of its information technology resources. Using computing resources in any manner that violates any federal laws, New York State penal laws, State University of New York policies or CCC policies herein may result in suspension or termination of computing privileges and/or suspension from the College. Student judicial action and prosecution to the full extent of the law will follow at the discretion of the College.

Access to computing resources is granted to CCC students for use in their academic work, with the understanding that access is a privilege and carries with it certain responsibilities. To use computing resources, a student must obtain a computer account username and password, which provides access to resources such as e-mail and file storage. With the exception of access to MyCCC via the Internet, students will not have access to CCC computer networks during any semester in which they are not registered. Other exceptions will be handled on an individual basis. Students are responsible for all activity under their individual accounts.

General Rules of Conduct:

• Unless authorized, users may not have food, drink or their containers near any computer.

• Computer resources (including e-mail) should be used for academic purposes only. Users will refrain from using College computer resources for personal use, such as recreation, personal profit, transmission of unsolicited bulk e-mails, etc.

• Unnecessary printing is prohibited.

• Aside from legitimately saving or backing up data, students are to leave hardware, configurations and security measures in place on the computer, unless express permission has been granted by a lab monitor or instructor.

• All uses of computer resources violating the College harassment policy are strictly prohibited.

• Use of computing facilities must not violate others’ rights to privacy and academic integrity.

• Users will refrain from displaying, printing or transmitting offensive or damaging materials. The College will not tolerate abusive or unethical use of equipment, such as harassing or threatening others.

• Students will not use the network to spread computer viruses, Trojan horses, worms or any program designed to violate security, interfere with the proper operation of any computer system or destroy others’ data.

• Use of the network to duplicate copyrighted software, download movies, music or other students’ work without the owner’s explicit permission is strictly prohibited. When downloading and using printed materials, the source must be properly cited. Acts of piracy or violations of copyright laws are strictly prohibited.

File Storage:

Files stored on College servers are subject to disk quota limitations. Directories may be accessed by the College for routine maintenance and to check system integrity. Files stored on College servers are scanned continuously for viruses and may be deleted if found to be infected. All files on student directories will be deleted at the end of each semester. Therefore students must:

• Copy their stored files to their own storage media or e-mail them to themselves to use elsewhere.

• Copy files no later than the end of each semester if they wish to keep files that are stored on College servers.

Plagiarism:

The act of copying text, media, programs or subroutines from any source and submitting the material as your own work constitutes plagiarism and is prohibited. See the College’s Code of Student Conduct and Academic Honesty policies.

Security and Privacy:

Users must be aware that computer systems of public institutions may be subject to open records laws. CCC Information Technology staff and teaching faculty may routinely access student user data for legitimate academic purposes, to review course work, to diagnose and resolve technical problems, to archive old data files and to investigate possible misuse of CCC computer systems and resources.

Violations:

A student found to be engaging in a prohibited computer activity will be required to cease that activity immediately. All users should report any suspected unauthorized access attempts or other improper use of College computers, networks or other information processing equipment. If a user observes or receives a report of a security or abuse problem with any College computer or network facilities, the user should notify the lab monitor/instructor or help desk personnel.

Note: Users will be assessed for repair or replacement costs resulting from misuse.

Children on Campus

As a post-secondary institution, CCC strives to create a safe and appropriate adult learning environment. The campus grounds and operations are designed to provide an environment conducive to academic and occupational activities performed by students and employees. For reasons that include safety of children, and assuring professional efficient performance of academic pursuits, operations, and services, the College cannot routinely accommodate unsupervised children in campus workplaces, classrooms, or other locations.

Scope

CCC encourages safe, supervised campus visits by children for the purposes of making decisions about their academic future; attending educational, cultural, or sporting events and camps; and authorized use of facilities such as the Spencer Crest Nature Center and Planetarium. This Policy does not preclude brief campus visits when the minor child is accompanied by another responsible adult. These procedures apply to students, employees, and visitors who may bring children under the age of 18 (unless a registered CCC/High School Learning Center student) to campus for any reason other than activities specifically organized/scheduled by the College for children or activities or facilities open to the public.

Guidelines

While on any CCC property, children must at all times remain fully under the direct supervision of their parent/guardian/caretaker who is responsible for ensuring that no behaviors inconvenience, endanger, or disrupt the work activities of students, employees, or other visitors, as well as ensuring that no behaviors place the children’s safety at risk. Leaving children unattended in public areas such as the library, gym, game room, cafeteria, etc. while the parent/guardian is in class or working does not meet this supervision standard.
Children may not attend class or class activities along with enrolled students except on very rare occasions with the explicit permission of faculty. Children may not be present at the employee's work site during the employee’s assigned work hours except on very rare occasions with the explicit permission of the employee’s supervisor.

Unsupervised children will be brought to the Public Safety Office until the parents can be contacted to resume control of the children. In such cases, the child’s parent/guardian will be immediately contacted and asked either to resume direct supervision of the child or to leave campus with the child.

At no time should ill children be brought to campus. The College Health Office is established to serve students and is unable to provide services to children. If an emergency situation arises and children are brought to campus, please keep the following points in mind:

- Unless explicit permission from an instructor is granted, children must not be brought to classes or any instructional area while classes are in session. Such permission should be granted sparingly and should take into account the best interest of all students in the class.
- Unless explicit permission from an employee’s immediate supervisor is granted, children must not be brought to offices or other areas where the day-to-day business of the College is conducted while the employee is working. Such permission should be granted sparingly and should take into account the best interest of all employees of the department.
- Children must not be brought to risk areas, such as lab or lab preparation areas, food preparation/service areas, gyms and fitness centers, maintenance and garage areas, or in or around college motor vehicles and equipment. Unattended children could hurt themselves on machinery, fall down stairwells, etc.
- Children must not be left unattended at any place on campus, including the restrooms, game room, gym, library, grounds and parking lots.

The College reserves the right to direct that a child be removed from campus where the presence of the child causes an unacceptable health or safety risk or an unreasonable level of disruption to others. Any questions concerning this policy may be directed to the Director of Human Resources at X9229.

**Confidentiality and Privacy Rights**

In the interest of students’ rights and freedoms concerning all aspects of their educational experience, the College will comply with the spirit and intent of the Family Educational Rights and Privacy Act of 1974, as amended. This Act was designated to protect the privacy of education records, to establish the right of students to inspect and review their education records and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings.

Students also have the right to file complaints with the Family Educational Rights and Privacy Act Office (FERPA) concerning alleged failure by the College to comply with the Act. College policy explains in detail the procedures to be used by the institution for compliance with the provisions of the Act. Questions concerning the Family Educational Rights and Privacy Act may be referred to Enrollment Advisement Center.

Your educational record includes any record that is directly related to you and is maintained by CCC or an organization acting on our behalf.

**Educational records may include:**
- Written documents, including student advising folders
- Student files
- Student system databases kept in storage devices such as servers

**Records not considered educational records include:**
- Private notes of individual staff or faculty (not kept in advising folders)
- Campus police records

**Consent to Disclose Educational Records**

If you provide written consent to CCC to disclose non-directory information, the authorization should include the following:

- The records to be disclosed
- The purpose of the disclosure
- Identify the party to whom the disclosure is to be made
- The date
- Your signature

Prior written consent is not required when disclosure is made directly to you or to other school officials within the same institution where there is a legitimate educational interest. A legitimate educational interest may include enrollment or transfer matters, financial aid issues, or information requested by regional accrediting organizations. You are guaranteed access to your records. You have the right to inspect and review your records upon request. CCC will grant you access to your records within a reasonable amount of time, not to exceed 45 days from the day the request was received. You also have the right to ask CCC to amend your records if you feel it contains inaccurate information.

**Directory information**

Directory information is information contained in your education record which is not considered harmful or an invasion of privacy if disclosed. Directory information at CCC includes:

- Name
- Address
- Phone number and e-mail address
- Date of birth
- Dates of attendance
- Degree(s) awarded
- Honors and awards
- Enrollment status• major field of study
- Sports

Corning Community College may disclose directory information without your written consent unless you exercise the option to restrict the release by submitting a formal request to the Retention and Educational Planning Office. Non-directory information is any educational record not considered directory information. Non-directory information cannot be released without your written consent. Faculty and staff can access non-directory information only if they have a legitimate academic need to do so.

Non-directory information may include:

- Social Security numbers
- Student identification number
- Race, ethnicity, and/or nationality
- Gender
- Transcripts and grade reports
- Grade point averages

You have a right to know about the purpose, content, and location of information kept as a part of your educational records. You also have a right to expect that information in your educational records will be kept confidential unless you give permission to the school to disclose your information.

You have a right to amend your records if you feel it contains inaccurate information.
Consensual Sexual and Amorous Relations Policy

Corning Community College has a strong commitment to a community that promotes the exchange of ideas, builds mutual trust and respect, facilitates communication, and reduces misunderstandings. When faculty and staff members exercise power and authority over students and employees for whom they have current supervisory, instructional, or other professional responsibility, a power imbalance is created which makes consent within any sexual or romantic relationship between them problematic, and may impede the real or perceived freedom of the student or employee to terminate or alter the relationship. Corning Community College also recognizes that a sexual or romantic relationship under the conditions set forth above may result in a loss of objectivity and create a conflict of interest in any evaluative, supervisory, instructional, or other professional role.

The Consensual Sexual and Amorous Relations Policy applies to all faculty and staff, all job classifications, titles and types of appointments under College jurisdiction engaged in relationships with students or other campus faculty or staff where there is an actual or perceived power imbalance because of supervisory or professional roles of participants in the relationship.

It is the policy of Corning Community College that:

- Sexual or amorous relationships between Corning Community College faculty or staff members and students to whom such faculty or staff members have current or reasonably predicted future professional responsibility are prohibited.

- Sexual or amorous relationships between faculty or staff members and students to whom the faculty or staff members have no current professional responsibility are strongly discouraged.

- Sexual or amorous relationships between supervisors and non-student employees to whom such supervisors have current professional responsibility are strongly discouraged. Where such a relationship exists, it shall be the responsibility of the individual to inform the divisional executive and Human Resources in a timely manner, so that the supervisor may be removed from any evaluation of the employee, and from any activity or decision that may appear to reward, penalize, or otherwise affect the employment status of the employee.

- All parties have a duty to abide by this policy and cooperate in making alternative arrangements.

Members of the campus community are reminded that persons with the status advantage in such relationships could be subject to formal discipline for violating their professional and ethical obligations to a student or employee of the College (as per the disciplinary policies and procedures noted in the personnel handbook and respective collective bargaining agreements); to charges of sexual harassment should such a complaint be filed by a party in the relationship or to charges of discrimination should another employee claim to be adversely affected by the relationship (as per the Equal Employment and Education Opportunity Policy and Complaint Procedure).

Drug-Free Campus

The Drug-Free Workplace Act of 1988 requires members of our College community to be informed of the potential health hazards of drug use and the possible penalties for those who violate laws governing the use of illicit drugs. Illicit drugs and alcohol may cause addiction, severe physical and emotional illness and death. Convictions under local, state and federal laws can result in fines, prison sentences or both. Information about drug counseling and rehabilitation is available from the College Health Office. As a condition of employment, study or contact with the College, all employees, students and visitors are prohibited from the illegal use, manufacture, possession or distribution of all controlled substances on the campus. Any violations of this policy will result in College disciplinary action up to and including discharge or expulsion, whichever is appropriate. In addition, violations of this policy may be reported to civil authorities. Criminal convictions will be reported to federal contracting agencies as required by state and federal statutes.

Information about drug counseling and rehabilitation is available on campus from the College Health Office and the Employee Assistance Program offers assistance to employees and their dependents with chemical dependence.

Employees of Corning Community College must notify the Director of Human Resources of any convictions for drug-related offenses occurring in the workplace no later than five calendar days after such conviction.

The Drug-Free Schools and Communities Act of 1989 requires that employees, students, and visitors of Corning Community College be informed that illicit drugs and alcohol may cause addiction, severe physical and emotional illness, and death. This Act also requires that employees, students, and visitors be informed that convictions under local, state and federal laws can result in fines, prison sentences, or both. Legal sanctions for the unlawful possession or distribution of alcohol are found primarily in state statutes.

Employees who need help with drug and/or alcohol problems should contact the Director of Human Resources for assistance. Students who need help with drug and/or alcohol problems should contact the Vice President and Dean of Student Development, the College Nurse, or the Counseling Staff for assistance. All requests for assistance are confidential.

Equal Employment/Educational Opportunity

SUNY Corning Community College (“the College”) declares and affirms a policy of equal employment and equal educational opportunity. The College will make all decisions regarding admissions and the entire educational process of its students (including all educational programs and activities) and the recruitment, hiring, promotion, and other terms and conditions of employment without discrimination on the basis of race, color, age, religion, national origin, disability, sex, sexual orientation, or other protected characteristics which cannot be lawfully used as the basis for employment or educational decisions.

Through its policies and programs, the College undertakes to comply fully with all applicable federal, state and local laws relating to equal employment and equal educational opportunity. These laws include the Americans with Disabilities Act (ADA), Section 504 of the Rehabilitation Act of 1973, Title IX of the Educational Amendments of 1972, Title VII of the Civil Rights Act of 1964 as amended by the Equal Employment Opportunity Act of 1972, and the New York State Human Rights Law. These laws prohibit discrimination and harassment, including sexual harassment and sexual violence, and place an affirmative obligation on the College to maintain a work and study environment free from discriminatory harassment, intimidation, ridicule, and insult (also see Sexual Harassment Response and Prevention Statement).

The College is committed to maintaining an educational and work environment that is free of any harassment and to fostering positive business and personal conduct so that everyone, including students, employees, and visitors, is treated with respect and dignity in a nondiscriminatory environment.

Summary

Harassment on the basis of the above protected characteristics constitutes unlawful discrimination. The College will take steps to prevent
discrimination and harassment, to prevent the recurrence of discrimination and harassment, and to remedy its discriminatory effects on the victim(s) and others. Sex discrimination includes sexual harassment, sexual assault, and sexual violence.

This policy applies to all members of the campus community, individuals doing business with the College, and any persons utilizing campus facilities. A procedure for handling complaints under this policy has been established and is available at: https://www.corning-cc.edu/nondiscrimination. This procedure may be used by students, employees, or any third party participating in a College sponsored program or affiliated activity. Employee grievance procedures established through College policy or collective bargaining agreements, student disciplinary procedures, or any other internal grievance/complaint procedure will continue to operate as before.

The President of the College has ultimate responsibility for equal opportunity and has assigned responsibility for the administration of the College’s policy to the Executive Director of Human Resources (the “Director”), who also serves as the College’s Title IX Coordinator. The Director administers the Equal Employment and Educational Opportunity Complaint Procedure, coordinates the activities of the Equal Opportunity Committee, and is responsible for the maintenance of all necessary records needed to comply with federal and state laws governing equal employment and educational opportunity. One or more deputy coordinators may be appointed to assist the Director in his/her Title IX Coordinator duties; a complete list of these deputy coordinators is available from the Director.

To ensure that the complaint procedure processes are fair, the Director or his/her designee serves as an impartial party who is responsible for:

• Ensuring that the procedure is carried out properly
• Ensuring that the rights of both complainant and respondent are protected and that both parties have an equal opportunity to present relevant witnesses and other evidence
• Advising and providing information to the complainant and respondent, including information on counseling and victim services available both on and off campus
• Investigating complaints
• Requesting access to pertinent documents
• Maintaining a record of each case.

The Director may receive initial inquiries, reports, and requests for consultation and counseling on an informal basis. Assistance will be available whether or not a formal complaint is under consideration or even possible. It is the responsibility of the Director to respond to all such inquiries, reports, and requests as soon as possible and in a manner appropriate to the particular circumstances. This response may include interim measures to protect the parties during the investigation process. Such interim measures will not disproportionately impact the complainant.

Individuals who believe that they have been harassed or otherwise discriminated against in violation of this policy should contact the Director. Responsible employees who observe or become aware of incidents of discrimination and harassment, including sexual harassment, sexual assault, and sexual violence, are obligated to report this information to the Director. A “responsible employee” is an employee with the authority to take action to redress the harassment/discrimination, who has the duty to report harassment or any other misconduct by students or employees to appropriate college officials, or an individual who a student or employee could reasonably believe has this authority or responsibility. In the event that the Director is alleged to have discriminated against an individual in violation of this policy, the incident should be reported directly to the President’s Office.

Inquiries regarding the application of Title IX and other laws, regulations, and policies prohibiting discrimination and harassment may be directed to:

•Connie Park, Executive Director of Human Resources, Title IX Coordinator 1 Academic Drive, Corning NY 14830. (607) 962-9444. cpark3@corning-cc.edu
-OR-

•U.S. Department of Education’s Office for Civil Rights 32 Old Slip, 26th Floor New York, NY 10005-2500. (646) 428-3800 OCR.NewYork@ed.gov

Definitions

Harassment on the Basis of Protected Characteristics Other Than Sex/Gender – harassment based on race, color, age, religion, national origin, disability, sexual orientation, or other protected characteristics is oral, written, graphic or physical conduct relating to an individual’s protected characteristics that is sufficiently severe, pervasive, or persistent so as to interfere with or limit the ability of an individual to participate in or benefit from the College’s programs or activities.

Sex Discrimination – behaviors and actions that deny or limit an individual’s ability to benefit from and/or fully participate in the educational programs or activities or employment opportunities because of an individual’s sex. Under Title IX, discrimination on the basis of sex can include sexual harassment, rape, and sexual assault, and sexual violence, both on and off campus, by employees, students, or third parties. Employees and students should report sexual harassment that they observe or become aware of to the Title IX Coordinator.

Sexual Harassment in the Educational Setting – unwelcome conduct of a sexual nature. Sexual harassment can include unwelcome sexual advances, requests for sexual favors, and other verbal, nonverbal, or physical conduct of a sexual nature. Sexual harassment of a student denies or limits, on the basis of sex, the student’s ability to participate in or to receive benefits, services, or opportunities in the College’s programs.

Sexual Harassment in the Employment Setting – unwelcome sexual advances, requests for sexual favors, or verbal or physical conduct of a sexual nature when any of the following occurs:

• Submission to such conduct is made a term or condition of an individual’s continued employment, promotion, or other condition of employment
• Submission to or rejection of such conduct is used as a basis for employment decisions affecting an employee or job applicant
• Such conduct is intended to interfere, or results in interference, with an employee’s work performance, or creates an intimidating, hostile, or offensive work environment (hostile environment harassment).

Sexual Assault – a physical sexual act or acts committed against an individual’s will and consent or when an individual is incapable of giving active consent, incapable of appraising the nature of the conduct, or incapable of declining participation in, or communicating unwillingness to engage in, a sexual act or acts. Sexual assault is an extreme form of sexual harassment. Sexual assault includes what is commonly known as “rape,” whether forcible or non-forcible, “date rape,” and “acquaintance rape.” Nothing contained in this definition shall be construed to limit, or conflict with the sex offenses enumerated in Article 130 of the NYS Penal Law, which shall be the guiding reference in determining if the alleged conduct is consistent with the definition of sexual assault.

Sexual Violence – as that term is used in this document and prior U.S. Office for Civil Rights guidance, refers to physical sexual acts perpetrated against a person’s will or where a person is incapable of giving consent (as defined within this policy). A number of different acts fall into the category of sexual violence, including rape, sexual assault, sexual battery, sexual abuse, and sexual coercion. Sexual violence could involve students, College employees, third parties or a combination. All
such acts of sexual violence are forms of sex discrimination prohibited by Title IX and the College’s Equal Employment and Educational Opportunity Policy.

**Affirmative Consent** – a knowing, voluntary and mutual decision among all participants to engage in sexual activity. Consent can be given by words or actions, as long as those words or actions create a clear permission regarding willingness to engage in sexual activity. Silence or lack of resistance, in and of itself, does not demonstrate consent. The definition of consent does not vary based upon a participant’s sex, sexual orientation, gender identity, or gender expression.

- Consent to any sexual act or prior consensual sexual activity between or with any party does not necessarily constitute consent to any other sexual act.
- Consent is required regardless of whether the person initiating the act is under the influence of drugs and/or alcohol.
- Consent may be initially given but withdrawn at any time. When consent is withdrawn or can no longer be given, sexual activity must stop.
- Consent cannot be given when a person is incapacitated, which occurs when an individual lacks the ability to knowingly choose to participate in sexual activity. Incapacitation may be caused by the lack of consciousness or being asleep, being involuntarily restrained, or if an individual otherwise cannot consent. Depending on the degree of intoxication, someone who is under the influence of alcohol, drugs, or other intoxicants may be incapacitated and therefore unable to consent.
- Consent cannot be given when it is the result of any coercion, intimidation, force, or threat of harm.

**Hostile Environment Sexual Harassment** – examples include:
- Sexual innuendos, sexually suggestive comments, offensive language, sexually oriented kidding or teasing, gestures, practical jokes, etc.
- Displays of sexually suggestive pictures, magazines, or other objects
- Any other conduct that ridicules or humiliates an individual because of his/her gender.

**Non-Sexual Hostile Environment Harassment** - The same general principles that apply to hostile environment sexual harassment also apply to harassment on the basis of other factors, such as race, color, age, religion, national origin, disability, sexual orientation, or other protected characteristics. Examples of non-sexual hostile environment harassment include:
- Transfer, demotion, or termination of employees on the basis of race, color, age, religion, national origin, disability, gender, sexual orientation, or other protected characteristics.
- Interference in or denial of opportunities for educational success on the basis of race, color, age, religion, national origin, disability, gender, sexual orientation, or other protected characteristics.
- Unwelcome, offensive, or demeaning comments, slurs, language, jokes, or gestures related to or referring to an individual’s race, color, age, religion, national origin, disability, gender, sexual orientation, or other protected characteristics.
- The presence of books, magazines, pictures, or other objects that may be reasonably construed as offensive or demeaning based on race, color, age, religion, national origin, disability, gender, sexual orientation, or other protected characteristics.
- Creating or contributing to an intimidating, hostile, or offensive working environment on the basis of race, color, age, religion, national origin, disability, gender, sexual orientation, or other protected characteristics.

**Dating violence** – any act of violence committed by a person who is or has been in a social relationship of a romantic or intimate nature with the victim. The existence of such a relationship shall be determined based on the victim’s statement and with consideration of the type and length of the relationship and the frequency of interaction between the persons involved in the relationship. Two people may be in a romantic or intimate relationship, regardless of whether the relationship is sexual in nature; however, neither a casual acquaintance nor ordinary fraternization between two individuals in a business or social context shall constitute a romantic or intimate relationship. This definition does not include acts covered under domestic violence.

**Domestic violence** – any violent felony or misdemeanor crime committed by a current or former spouse or intimate partner of the victim, a person sharing a child with the victim, or a person cohabitating with the victim as a spouse or intimate partner.

**Preponderance of the Evidence** – the standard of proof in sexual harassment and sexual assault cases which asks whether it is “more likely than not” that the sexual harassment or sexual violence occurred. If the evidence presented meets this standard, then the accused should be found responsible.

**Financial Obligations**

All students incur a liability for tuition and fees at the time they register for classes. Students are responsible for any College debts they have incurred (i.e. tuition and fees, bookstore charges, library fees, parking fines, day care, etc.). Students with delinquent accounts will be blocked from registering for future courses. Also, a hold will be placed on all transcripts or grade reports until all bills have been paid. If a College debt must be referred to outside sources for collection, the student will be responsible for all reasonable costs of collection as well as attorney fees.

**Freedom in the Classroom**

Freedom of discussion and expression of views must be encouraged and protected. It is the responsibility of the professor in the classroom and in conference to insure the realization, not only of the fact but the spirit, of free inquiry. In particular, students must be protected against prejudice or capricious academic evaluation. Information about student views, beliefs and political associations, acquired by College officials in the course of their work as instructors and advisors, is confidential and must not be disclosed to others.

**Freedom of Protest**

The right of peaceful protest (including peaceful picketing and other orderly demonstrations) within the College community will be preserved. The College retains the right and obligation to assure the safety of individuals, the protection of health and property and the continuity of the educational process, and reserves the right to dictate the timing and location of the protest. No one shall have the right to obstruct and/or forcibly prevent others from exercising their rights or to interfere with the institution’s educational processes or facilities or the rights of those who wish to avail themselves of any of the institution’s services. These services include those that are instructional, personal, administrative, recreational and community oriented.

**Grievances**

Students with a complaint against a faculty member have the opportunity to take grievances through two channels. For academic issues, such as grades, returning homework on time, adhering to the syllabus, quality of instruction, etc., students should seek to resolve the complaint directly with the faculty member. The next step would be to meet with the appropriate academic department chair. If still unresolved, the student may meet with the appropriate associate dean of instruction. If necessary, a final appeal may be made to the Provost. For other complaints, such as discriminatory harassment or other inappropriate interpersonal behavior, students should contact the Human Resources Office.

**Library Use**

The student ID card available from the Public Safety Office serves as the library card. Borrowing privileges are extended solely to the individual named on a student ID. The student is responsible for all materials checked out on his/her card even if they are shared with another.
individual. If a student ID is stolen or lost, the student should report the loss to Public Safety and the Library immediately.

All Library users are notified of the loan period at the time an item is borrowed. Library materials must be returned or renewed by the assigned due date. Materials may be renewed by contacting the Library Circulation Office at (607) 962-9251, in person, via e-mail to circulation@corning-cc.edu, or online through the Library Catalog.

Overdue notices are sent as a courtesy. Overdue fines vary depending on the type of material borrowed. Fines on circulating books accrue at $1.10 per day, and overdue reserve and interlibrary loan materials are assessed at $1.00 per day. The circulation loan policy is available at the Library Circulation Desk and website. Accounts must be settled when materials are returned. Failure to do so will result in a hold on transcripts and receipt of a bill for the full value of the materials plus a processing fee and overdue fines. Library privileges may be suspended until accounts are settled.

Use of remote access to the Library Online electronic databases is restricted to current students, faculty and staff. Violations of this policy will result in suspension of access to the databases.

Non-Students on Campus
A parent or guardian must supervise minors who are not enrolled at CCC or involved in a sponsored program. Action may be taken against any and all persons who have no legitimate reason for their presence on College property. Since such persons are not subject to College sanctions, the procedures by which such privileges are granted shall be developed in accordance with the penal law. Under Section 140.35 of New York State Penal law, a person is guilty of loitering when he/she remains in or about school, College or university buildings or grounds, not having any reason or relationship involving custody of or responsibility for a pupil or student, or any other specific legitimate reason for being there and not having permission from anyone authorized to grant this privilege.

Reasonable Accommodations Policy
Corning Community College has a long established policy of providing accessible facilities for all persons with disabilities. The College also complies with the Americans with Disabilities Act (ADA) and establishes this Reasonable Accommodation Policy to guide the College in its efforts to comply with the law.

Corning Community College will provide students, job applicants, employees and campus visitors reasonable accommodations, short of causing the College undue hardship, if any of the following conditions covered by the ADA exist:

- The individual has a physical or mental impairment, which substantially limits one or more major life activities.

- The individual has a record of such impairment.

- The individual is regarded as having such impairment.

Corning Community College will discuss the possibility of reasonable accommodation with the affected individual and solicit his/her suggestions as to what may be done. The College may also elect to discuss the situation with the affected individual’s physician, independent physicians, or vocational counselors.

Possible avenues of reasonable accommodation include providing access to facilities, shifting of duties, a reduction or rescheduling of working hours, or other reasonable measures, which do not cause undue hardship to the College. Any reasonable accommodation must allow for the essential functions of the position, as described on the position analysis, to be carried out by the affected individual.

The College may deny a request for an accommodation if the President of the College decides that the remedy will place an undue hardship upon the College. An undue hardship response will take the following factors into consideration:

- If the individual has the necessary qualifications to perform the essential functions of the position.

- If the accommodation requested places anyone in danger.

- If alternative means of providing access exist.

- If the accommodation fundamentally alters the nature of the activities in the affected area.

- The nature and the cost of the accommodation.

The President of the College will provide a written response for any denial of a reasonable accommodation that is based on undue hardship. All supervisors will receive ongoing training about their obligations under the ADA and be informed of all policies developed to comply with the law.

In addition, a budget line will be established to finance expenses for any reasonable accommodations the College makes.

Employees and job applicants must make their requests for reasonable accommodations through the Director of Human Resources, who is designated as the College’s Section 504/ADA Coordinator; students and members of the public must make their requests for reasonable accommodations through the Office of Accessibility Services. All medical information acquired during the process will be confidential. Any decision regarding undue hardship will be made by the President of the College.

Religious Absences
New York State Education Law 224-A, which follows, specifies the rights of students who are unable to attend classes on certain days because of religious beliefs.

- No person shall be expelled from or be refused admission as a student to an institution of higher education for the inability, because of religious beliefs, to attend classes or to participate in any examination, study or work requirements on a particular day or days.

- Any student in an institution of higher education who is unable, because of religious beliefs, to attend classes on a particular day or days shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.

- It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to each student who is absent from school, because of religious beliefs, an equivalent opportunity to make up any examination, study or work requirements which may have been missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.

- If classes, examinations, study or work requirements are held on Friday after four o’clock post meridian or on Saturday, similar or makeup classes, examinations, study or work requirements shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to the student for these classes, examinations, study or work requirements held on other days.

- In effectuating the provisions of this section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student utilizing the provisions of this section.

- Any student who is aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section shall be entitled to maintain an action or proceeding in the
supreme court of the county in which such institution of higher education is located for the enforcement of individual rights under this section.

- A copy of this section shall be published by each institution of higher education in the catalog of such institution containing the listing of available courses.
- As used in this section, the term “institution of higher education” shall mean schools under the control of the Board of Trustees of the State University of New York or of the Board of Higher Education of the City of New York or any community college.

Response Policy for Sexual Violence and Other Misconduct

This policy and any associated administrative requirements and procedures are intended to comply with the uniform sexual assault prevention and response policies developed by the State University of New York for implementation at each of its State-operated and community college campuses, as well as with applicable federal and New York State law.

Definition of Sexual Violence

Sexual violence, as that term is used in this document and prior U.S. Office for Civil Rights guidance, refers to physical sexual acts perpetrated against a person’s will or where a person is incapable of giving consent (as defined within this policy). A number of different acts fall into the category of sexual violence, including rape, sexual assault, sexual battery, sexual abuse, and sexual coercion. Sexual violence could involve students, College employees, third parties or a combination. All such acts of sexual violence are forms of sex discrimination prohibited by Title IX and the College’s Equal Employment and Educational Opportunity Policy.

Definition of Affirmative Consent

Affirmative consent is a knowing, voluntary and mutual decision among all participants to engage in sexual activity. Consent can be given by words or actions, as long as those words or actions create a clear permission regarding willingness to engage in sexual activity. Silence or lack of resistance, in and of itself, does not demonstrate consent. The definition of consent does not vary based upon a participant’s sex, sexual orientation, gender identity, or gender expression.

- Consent to any sexual act or prior consensual sexual activity between or with any party does not necessarily constitute consent to any other sexual act.
- Consent is required regardless of whether the person initiating the act is under the influence of drugs and/or alcohol.
- Consent may be initially given but withdrawn at any time. When consent is withdrawn or can no longer be given, sexual activity must stop.
- Consent cannot be given when a person is incapacitated, which occurs when an individual lacks the ability to knowingly choose to participate in sexual activity. Incapacitation may be caused by the lack of consciousness or being asleep, being involuntarily restrained, or if an individual otherwise cannot consent. Depending on the degree of intoxication, someone who is under the influence of alcohol, drugs, or other intoxicants may be incapacitated and therefore unable to consent.
- Consent cannot be given when it is the result of any coercion, intimidation, force, or threat of harm.

Alcohol and/or Drug Use Amnesty in Sexual and Interpersonal Violence Cases

The health and safety of every student at the State University of New York and its State-operated and community colleges is of utmost importance. Corning Community College recognizes that students who have been drinking and/or using drugs (whether such use is voluntary or involuntary) at the time that violence, including but not limited to domestic violence, dating violence, stalking, or sexual assault occurs may be hesitant to report such incidents due to fear of potential consequences for their own conduct. The College strongly encourages students to report incidents of domestic violence, dating violence, stalking, or sexual assault to institution officials. A bystander acting in good faith or a reporting individual acting in good faith that discloses any incident of domestic violence, dating violence, stalking, or sexual assault to College officials or law enforcement will not be subject to the College’s code of conduct action for violations of alcohol and/or drug use policies occurring at or near the time of the commission of the domestic violence, dating violence, stalking, or sexual assault.

Reporting Options, Resources, Protections, and Accommodations for Victims/Survivors

In accordance with the Students’ Bill of Rights, available at: www.corning-cc.edu/sexualviolence, reporting individuals will have the right to pursue more than one of the options below at the same time, or to choose not to participate in any of the options below:

Reporting:

- To disclose confidentially the incident to one of the following College officials, who by law may maintain confidentiality, and can assist in obtaining services (more information on confidential reporting is available at: https://www.corning-cc.edu/sexualviolence/confidentialdisclose).
  - Chaplain’s Office, Commons Building, (607) 962-9257
  - Health Services Office, Commons Building, (607) 962-9257
- To disclose confidentially the incident and obtain services from the New York State, New York City or county hotlines: http://www.opdv.ny.gov/help/dvhotlines.html. Additional disclosure and assistance options are catalogued by the Office for the Prevention of Domestic Violence and presented in several languages: http://www.opdv.ny.gov/help/index.html (or by calling 1-800-942-6906), and assistance can also be obtained through:
  - SurvJustice: http://www.survjustice.org/services.html
  - Legal Momentum: https://www.legalmomentum.org/
  - NYSCASA: http://www.casanys.org
  - NYSCADV: http://www.nyscadv.org/
  - Pandora’s Project: http://www.pandys.org/lgbtsurvivors.html
  - GLBTQ Domestic Violence Project: http://www.glbtqdvlp.org/
  - RAINN: https://www.rainn.org/get-help
  - Safe Horizons: http://www.safehorizon.org/.

Note: these hotlines are for crisis intervention, resources, and referrals, and are not reporting mechanisms, meaning that disclosure on a call to a hotline does not provide any information to the campus. Reporting Individuals are encouraged to additionally contact a campus confidential or private resource so that the campus can take appropriate action in these cases.

- To disclose the incident to one of the following college officials who can offer privacy and can provide information about remedies, accommodations, evidence preservation, and how to obtain resources. Those officials will also provide the information contained in the Students’ Bill of Rights, including the right to choose when and where to report, to be protected by the institution from retaliation, and to receive assistance and resources from the institution. These College officials will disclose that they are private and not confidential resources and they may still be required by law and College policy to inform one or more College officials about the incident, including but not limited to the Title IX Coordinator. They will notify reporting individuals that the criminal justice process uses different standards of proof and evidence than internal procedures, and questions about the penal law or the criminal justice process should be directed to law enforcement or district attorney:
• Emergency access to obtain effective intervention services:
  - Sexual Assault Resource Center (SARC):
    135 Walnut Street, Corning, NY 14830
    755 E. Church Street, Elmira, NY 14901
    323 Owego Street, Unit #12, Montour Falls, NY 14865
    Toll-Free Hotline: 888-810-0093

• To file a criminal complaint with the Department of Public Safety and/or local law enforcement and/or state police:
  - Corning Community College Department of Public Safety, (607) 962-9000 or publicsafety@corning-cc.edu
  - Steuben County Sheriff, Dial 911 or 7007 Rumsey St. Ext., Bath, NY 14810, (800) 724-7777 or (607) 622-3930.
  - New York State Police, Dial 911 or Painted Post Barracks 3859 Meads Creek Road, Painted Post, NY 14870, (607) 962-6865.

• To receive assistance from the Department of Public Safety in initiating legal proceedings in family court or civil court.

• To file a report of sexual assault, domestic violence, dating violence, and/or stalking, and/or talk to the Title IX Coordinator for information and assistance. Reports of sexual assault will be investigated in accordance with the College’s Equal Employment and Educational Opportunity Complaint Procedure, available at: https://www.corning-cc.edu/sexualviolence.

Complaints of domestic violence, dating violence, and/or stalking will be investigated in accordance with procedure established under the student conduct process. The reporting individual’s identity shall remain private at all times if said reporting individual wishes to maintain privacy. If a reporting individual wishes to keep his/her identity anonymous, she or he may call the Title IX Coordinator’s office anonymously to discuss the situation and available options (https://www.corning-cc.edu/sexualviolence).

- Connie Park, Title IX Coordinator, (607) 962-9444, Human Resources Office, 1 Academic Drive, Administration Building, Corning, NY 14830, cpark3@corning-cc.edu

• When the accused is an employee, a reporting individual may also report the incident Connie Park, Executive Director of Human Resources/Title IX Coordinator, Administration Building, (607) 962-9444, cpark3@corning-cc.edu, or may request that one of the above referenced confidential or private employees assist in reporting the incident to the Human Resources Office. Disciplinary proceedings will be conducted in accordance with applicable College policy or collective bargaining agreements. When the accused is an employee of an affiliated entity or vendor of the College, College officials will, at the request of the reporting individual, assist in reporting to the appropriate office of the vendor or affiliated entity and, if the response of the vendor or affiliated entity is not sufficient, assist in obtaining a persona non grata letter, subject to legal requirements and College policy.

• You may withdraw your complaint or involvement from the College process at any time.

• At the first instance of disclosure by a reporting individual to a College representative, the following information shall be presented to the reporting individual, “You have the right to make a report to the College’s Department of Public Safety, local law enforcement, and/or State Police or choose not to report; to report the incident to the College; to be protected by the College from retaliation for reporting an incident; and to receive assistance and resources from the College.

Resources:
- Sexual Assault Resource Center (SARC):
  135 Walnut Street, Corning, NY 14830
  755 E. Church Street, Elmira, NY 14901
  323 Owego Street, Unit #12, Montour Falls, NY 14865
  Toll-Free Hotline: 888-810-0093

- Sexual contact can transmit Sexually Transmitted Infections (STI) and may result in pregnancy. Information on testing for STIs, emergency contraception, and whether such testing is provided for free or at a cost is available from SARC.

• A free, confidential counseling and resource referral service for students and their family members which is available 24/7:
  WELLCONNECT 1-866-640-4777 (access code: CCC-STU)

Within 96 hours of an assault, you can get a Sexual Assault Forensic Examination (commonly referred to as a rape kit) at a hospital. While there should be no charge for a rape kit, there may be a charge for medical or counseling services off campus and, in some cases; insurance may be billed for services. You are encouraged to let hospital personnel know if you do not want your insurance policyholder to be notified about your access to these services. The New York State Office of Victim Services may be able to assist in compensating victims/socializers for health care and counseling services, including emergency funds. More information may be found here: https://ovs.ny.gov/help-crime-victims, or by calling 1-800-247-8035.

To best preserve evidence, victims/socializers should avoid showering, washing, changing clothes, combing hair, drinking, eating, or doing anything to alter physical appearance until after a physical exam has been completed.

Protection and Accommodations:

• When the accused is a student, to have the College issue a “No Contact Order,” consistent with College policy and procedure, meaning that continuing to contact the protected individual is a violation of College policy subject to additional conduct charges; if the accused and a protected person observe each other in a public place, it is the responsibility of the accused to leave the area immediately and without directly contacting the protected person. The College will promptly review existing “No Contact Orders” at a party’s request, including requests to modify the terms of or discontinue an order. The parties can submit evidence to support their requests. If the College finds it appropriate, it can even make a schedule for the parties who seek to use the same facilities without running afoul of the “No Contact Order.”

• To have assistance from the Department of Public Safety or other College officials in initiating legal proceedings in family court or civil court, including but not limited to obtaining an Order of Protection or, if outside of New York State, an equivalent protective or restraining order.

• To receive a copy of the Order of Protection or equivalent and have an opportunity to meet or speak with a College official who can explain the order and answer questions about it, including information from the Order about the accused’s responsibility to stay away from the protected person(s); that burden does not rest on the protected person(s).

• To receive an explanation of the consequences for violating these orders, including but not limited to arrest, additional conduct charges, and interim suspension.

• To receive assistance from The Department Of Public Safety in effecting an arrest when an individual violates an Order of Protection or, if outside of New York State, an equivalent protective or restraining order within the jurisdiction of The Department of Public Safety or, if outside of the jurisdiction or if the Department of Public Safety does not have arresting powers to call on and assist local law enforcement in effecting an arrest for violating such an order.

• When the accused is a student and presents a continuing threat to the health and safety of the community, to have the accused subject to interim suspension pending the outcome of a complaint procedure or conduct process. The College will promptly review existing interim suspensions at a party’s request, including requests to modify the terms or discontinue an interim suspension. Parties can submit evidence to support their request.

• When the accused is not a student but is a member of the College community and presents a continuing threat to the health and safety of the community, to subject the accused to interim measures in accordance with
When the accused is not a member of the college community, to have assistance from the Department of Public Safety or other College officials in obtaining a persona non grata letter, subject to legal requirements and College policy.

To obtain reasonable and available interim measures and accommodations that effect a change in academic, housing, employment, transportation, or other applicable arrangements in order to ensure safety, prevent retaliation, and avoid an ongoing hostile environment. Parties may request a prompt review of the need for and terms of any interim measures and accommodations that directly affect them. The parties can submit evidence to support their requests. While reporting individuals may request accommodations through any of the offices referenced in this policy, the following office can serve as a point to assist with these measures:

-Human Resources Department: Connie Park, Executive Director and Title IX Coordinator, Parsons Administration Building, (607) 962-9444, cpark3@corning-cc.edu.

Student Conduct Process:

- To request that student conduct charges be filed against the accused. Conduct proceedings are governed by the procedures set forth in the Corning Community College Course Catalog, as well as federal and New York State law, including the due process provisions of the United States and New York State Constitutions.

Throughout conduct proceedings, the respondent and the reporting individual will have:

- The same opportunity to be accompanied by an advisor of their choice who may assist and advise the parties throughout the conduct process and any related hearings or meetings. Participation of the advisor in any proceeding is governed by federal law and the Student Code of Conduct;

- The right to a prompt response to any complaint and to have their complaint investigated and adjudicated in an impartial, timely, and thorough manner by individuals who receive annual training in conducting investigations of sexual violence, the effects of trauma, impartiality, the rights of the respondent, including the right to a presumption that the 7 respondent is “not responsible” until a finding of responsibility is made, and other issues related to sexual assault, domestic violence, dating violence, and stalking.

- The right to an investigation and process conducted in a manner that recognizes the legal and policy requirements of due process (including fairness, impartiality, and a meaningful opportunity to be heard) and is not conducted by individuals with a conflict of interest.

- The right to receive advance written or electronic notice of the date, time, and location of any meeting or hearing they are required to or are eligible to attend. Accused individuals will also be told the factual allegations concerning the violation, a reference to the specific code of conduct provisions alleged to have been violated, and possible sanctions.

- The right to have a conduct process run concurrently with a criminal justice investigation and proceeding, except for temporary delays as requested by external municipal entities while law enforcement gathers evidence. Temporary delays should not last more than 10 days except when law enforcement specifically requests and justifies a longer delay.

- The right to offer evidence during an investigation and to review available relevant evidence in the case file (or otherwise held by the College).

- The right to present evidence and testimony at a hearing, where appropriate.

- The right to a range of options for providing testimony via alternative arrangements, including telephone/videoconferencing or testifying with a room partition.

- The right to exclude prior sexual history with persons other than the other party in the conduct process or their own mental health diagnosis or treatment from admittance in College disciplinary stage that determines responsibility. Past findings of domestic violence, dating violence, stalking, or sexual assault may be admissible in the disciplinary stage that determines sanction.

- The right to ask questions of the decision maker and via the decision maker indirectly request responses from other parties and any other witnesses present.

- The right to make an impact statement during the point of the proceeding where the decision maker is deliberating on appropriate sanctions.

- The right to simultaneous (among the parties) written or electronic notification of the outcome of a conduct proceeding, including the decision, any sanction(s), and the rationale for the decision and any sanctions.

- The right to written or electronic notice about the sanction(s) that may be imposed on the accused based upon the outcome of the conduct proceeding. For students found responsible for sexual assault, the available sanctions are suspension with additional requirements and expulsion/dismissal.

- Access to at least one level of appeal of a determination before a panel, which may include one or more students, that is fair and impartial and does not include individuals with a conflict of interest.

- The right to have access to a full and fair record of a student conduct hearing which shall be preserved and maintained for at least five years.

- For information on the Student Code of Conduct and the student conduct process, contact the Provost.

- The right to choose whether to disclose or discuss the outcome of a conduct hearing.

- The right to have all information obtained during the course of the conduct or complaint process be protected from public release until the appeals panel makes a final determination, unless otherwise required by law.

Safety/Security

SUNY CCC has an excellent record in regard to safety. While crime is a national problem that affects even rural areas, we are fortunate that we have not experienced significant difficulties.

To maintain a safe environment for our students, we employ a professionally trained public safety and Residence Life staff who work to provide a safe, secure and respectful learning environment for everyone.


The Annual Security Report is available on the Public Safety web page found at: www.corning-cc.edu/annualsecurityreport.pdf. The statistics can also be found on the U.S. Department of Education’s website at http://ope.ed.gov/security/. Printed copies of the Annual Security Report are available at no cost by contacting the Public Safety Office at publicsafety@corning-cc.edu or by calling (607) 962-9000.

Service-Assistance Animal Policy

Corning Community College recognizes the importance of service and assistance animals to individuals with disabilities and has established this policy to ensure that such individuals receive the benefit of the
work/tasks performed by these animals or the therapeutic support they provide.

This policy applies to all members of the campus community, individuals doing business with the College, and any persons utilizing campus facilities. It is intended to comply with the relevant provisions of Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, the Fair Housing Act (FHA), and any other relevant federal or state legislation. The College reserves the right to amend this policy as the law and circumstances may require.

The Director of Human Resources, who also serves as the College’s ADA Coordinator, has developed procedures about the appropriate use of and protocols associated with service and assistance animals and is charged with ensuring compliance with these procedures. Although the College does not permit pets on campus or in its residence hall, exceptions may be made for service and assistance animals according to this policy and these procedures.

Definitions

Service Animals are dogs (and sometimes miniature horses, if permitted by 29 C.F.R. §36.302 (c)(9)), that are individually trained to do work or perform tasks for the benefit of individuals with disabilities, including physical, sensory, psychiatric, intellectual, or other mental disabilities. Examples of such tasks include, but are not limited to: guiding blind individuals, alerting deaf individuals, pulling a wheelchair, retrieving items (such as medication or a telephone), alerting and protecting an individual who is having a seizure, reminding an individual with a mental illness to take prescribed medications, calming an individual with Post Traumatic Stress Disorder (PTSD) during an anxiety attack, or performing other duties directly related to the individual’s disability. Service Animals are generally permitted to accompany individuals with disabilities to all areas where members of the public are allowed to go. Animals whose sole function is to provide comfort or emotional support do not qualify as Service Animals.

Assistance Animals are animals that do work, perform tasks, or provide emotional support which reduces or alleviates one or more identified symptoms or effects of their partner’s disability. An individual with a disability may keep an Assistance Animal in his/her dwelling unit as a reasonable accommodation if there is an identifiable relationship between the disability and the assistance the animal provides.

An Assistance Animal is not a Service Animal. Unlike Service Animals, an Assistance Animal may not accompany an individual with a disability to all places on campus where the general public is permitted to go. Assistance Animals may be allowed in the College’s residence hall as a reasonable accommodation, but they are not permitted in other areas of College property, such as classrooms, Learning Commons, dining areas, etc.

Pets are animals kept for ordinary companionship and are not considered Service Animals or Assistance Animals. Pets are not permitted to be kept on College property. Leashed dogs may be allowed on Spencer Crest Nature and Research Center trails, but owners must clean up after their dogs.

Sexual Violence Students’ Bill of Rights

The State University of New York and Corning Community College are committed to providing options, support and assistance to victims/survivors of sexual assault, domestic violence, dating violence, and/or stalking to ensure that they can continue to participate in College/University-wide and campus programs, activities, and employment. All victims/survivors of these crimes and violations, regardless of race, color, national origin, religion, creed, age, disability, sex, gender identity or expression, sexual orientation, familial status, pregnancy, predisposing genetic characteristics, military status, domestic violence victim status, or criminal conviction, have the following rights, regardless of whether the crime or violation occurs on campus, off campus, or while studying abroad:

All students have the right to:

• Make a report to local law enforcement and/or state police;
• Have disclosures of domestic violence, dating violence, stalking, and sexual assault treated seriously;
• Make a decision about whether or not to disclose a crime or violation and participate in the complaint or student conduct process and/or criminal justice process free from pressures from the institution;
• Participate in a process that is fair, impartial, and provides adequate notice and a meaningful opportunity to be heard;
• Be treated with dignity and to receive courteous, fair, and respectful health care and counseling services, where available;
• Be free from any suggestion that the reporting individual is at fault when these crimes and violations are committed, or should have acted in a different manner to avoid such crimes or violations;
• Describe the incident to as few institutional representatives as practicable and not to be required to unnecessarily repeat a description of the incident;
• Be free from retaliation by the institution, the accused and/or the respondent, and/or their friends, family, and acquaintances within the jurisdiction of the institution;
• Access to at least one level of appeal of a determination;
• Be accompanied by an advisor of choice who may assist and advise a reporting individual, accused, or respondent throughout the complaint or conduct process including during all meetings and hearings related to such process;
• Exercise civil rights and practice of religion without interference by the investigative, criminal justice, or complaint or conduct process of the College.

Options in Brief:

• Victims/survivors have many options that can be pursued simultaneously, including one or more of the following:
  ▪ Receive resources, such as counseling and medical attention;
  ▪ Confidently or anonymously disclose a crime or violation (for detailed information on confidentiality and privacy, visit www.corning.cc.edu/sexualviolence/confidentialdisclose).
• Make a report to:
  ▪ An employee with the authority to address complaints, including the Title IX Coordinator; a Student Conduct employee, or a Human Resources Office employee;
  ▪ Department of Public Safety;
  ▪ Local law enforcement;
  ▪ Family Court or Civil Court.

Student Code of Conduct

The principles established under this Code will govern the conduct of students on the College campus and any other premises or property under the control of the College used in its teaching, administrative, service, cultural, recreation, athletic, and other programs and activities. In addition, student athletes are subject to the principles of conduct established in the Athletic Code of Conduct and residential students are subject to the principles of conduct established in the Residence Life Handbook.

The College upholds local, state, and national laws. The College will not condone unlawful conduct, and it will not protect students from their obligation to uphold the law. In addition, the College will provide no
sanctuary for those who violate the law, and it will cooperate with appropriate health and law enforcement agencies. Some very specific applications of this principle are that students will be subject to discipline for the use, possession, sale, or transfer of illegal drugs, sexual abuse, hate crimes and hazing, and may also face civil prosecution for violations of this Code.

Actions for which students will be subject to College discipline include but are not limited to:

- Forgery or alteration of College documents, records or instruments of identification or use of same with intent to defraud.
- Intentional obstruction or disruption of teaching, research, administrative functions or disciplinary proceedings or other College activities, including public service functions and other authorized activities of the College.
- Abuse of any person, College premises, or at College-sponsored or College supervised events or conduct which threatens or endangers the health or safety of any such person.
- Hate crimes, also called bias crimes or bias-related crimes, involving criminal activity motivated by the perpetrator’s bias or attitude against an individual or group based on perceived or actual personal characteristics, such as race, religion, ethnicity, gender, sexual orientation or disability. Penalties for these crimes are very serious and range from fines to imprisonment for lengthy periods, depending on the nature of the underlying criminal offense, the use of violence or previous convictions of the offender. Students who are perpetrators of such crimes will also be subject to campus disciplinary procedures where sanctions including dismissal are possible.
- All forms of sexual violence and misconduct, which include, but are not limited to acts of sexual harassment, sexual violence, sexual coercion, sexual assault, domestic violence, dating violence, stalking, rape, criminal sexual acts, forcible touching, and sexual abuse. Where there is a preponderance of evidence indicating that such misconduct has occurred, strong disciplinary action will be pursued, including the possibility of suspension or dismissal from the College. An individual charged with sexual violence/misconduct may be subject to College disciplinary procedures, whether or not prosecution under New York State law is pending.
- Theft from or damage to College premises or theft or damage to property of a member of the College community or College premises.
- Failure to comply with directions of College staff.
- Use by any student or student organization of the College name or a claim to speak or act in the name of the College or a College-related organization without due authorization.
- Disorderly, lewd, indecent or obscene conduct or expression on campus or at a College-sponsored function.
- Hazing: Any action taken by any student or participation in the creation of any situation which recklessly or intentionally endangers mental or physical health or which involves the forced consumption of liquor or drugs for the purpose of initiation into or affiliation with any organization.
- Violation of published College regulations.
- Public intoxication or display of any behavior associated with the abuse of alcohol or drugs.
- Behavior that is lacking respect for the worth and/or dignity.

Student organizations which operate on the campus or upon the property of the College used for educational purposes are prohibited from authorizing the conduct described above. Student organizations which authorize prohibited behaviors will be subject to College discipline under this Code.

Violations of the Student Code of Conduct

Any member of the CCC community may file a complaint against a student for violations of the Student Code of Conduct. Complaints must be made in writing and directed to the Assistant Dean of Student Services (Assistant Dean). Complaints should be submitted as soon as possible after the event takes place, preferably within thirty days.

- Complaints of discrimination (including sexual harassment, sexual violence, sexual coercion, sexual assault, rape, criminal sexual acts, forcible touching, and sexual abuse), will be addressed by the Director of Human Resources/Title IX Coordinator under the College’s Equal Employment and Educational Opportunity Complaint Procedure, available at: https://www.corning-cc.edu/sites/default/files/EEEO_Complaint_Procedure...
- Complaints of violation of the Athletic Code of Conduct will be addressed by the Director of Athletics.
- Complaints of violation of the principles of conduct in the Residence Life Handbook will be addressed by the Director of Student Services.
- Complaints of violation of Academic Honesty will be addressed by the Provost.
- Complaints concerning the misconduct of a student organization (concerning hazing and other violations) should be directed to the President of the College.

Except for College-sponsored off-campus programs and off-campus incidents of sexual violence, it is the intent of the College to leave disciplinary action related to off-campus offenses of students to civil authorities. However, there may be certain off-campus offenses that by their very nature pose a serious threat or disruption to the College community. In such cases, the College reserves the right to take appropriate action.

Student Disciplinary Procedure

A procedure for handling Student Code of Conduct violations has been established and is available at: https://www.corning-cc.edu/sites/default/files/Student-Code-of-ConductC... This procedure guarantees students the right of due process, including the right to appeal.

Complaint Procedure

When a complaint is filed, the Assistant Dean will conduct an investigation to determine if the charges have merit and/or if they can be dis- posed of administratively by mutual consent of the parties involved on a basis acceptable to the Assistant Dean. The Assistant Dean will render a decision and a written notice will be sent to the accused student and the complainant. To more effectively identify behavior patterns, there are times when those with a “need to know” are notified about a student’s involvement, or alleged involvement, in an incident. To the extent allowed by FERPA (Family Education Rights and Privacy Act), this “need to know” may include administrators, faculty, advisors, counselors, coaches, and health and wellness professionals. An interim suspension may be imposed to ensure the safety and well-being of members of the CCC community, preservation of CCC property, and/or assurance of the student’s own physical or emotional safety. During the interim suspension, a student may be denied access to any property owned or controlled by the College, any class (including Internet classes), or any other CCC activities or privileges for which the student might otherwise be eligible. This interim suspension does not replace the normal discipline process. Determination of the interim suspension is at the discretion of the Assistant Dean.

Tobacco Free Campus

No consumption of tobacco will be allowed on any College property or in any College facility. Corning Community College is committed to providing its students, employees, and visitors with a safe and healthy environment. In light of this commitment, as well as the findings of the U.S. Surgeon General that exposure to secondhand tobacco smoke and use of tobacco are significant health hazards, the Regional Board of Trustees has established CCC as a smoke/tobacco-free institution, effective August 1, 2011.
Definitions
For the purpose of this policy, “tobacco” is defined to include any lighted or unlighted cigarette, cigar, pipe, bidi, clove cigarette, and any other smoking product, and smokeless or spit tobacco, also known as dip, chew, snuff or snus, in any form.

Scope
The use, distribution, or sale of tobacco or any smoking device (such as e-cigarettes), or the carrying of any lighted smoking instrument in College buildings or on College premises without exception, at offsite College-required learning activities, at events on College premises, or in College-owned, rented or leased vehicles, is prohibited. The College requires students, employees, and visitors to respect private property bordering all College locations by refraining from trespassing for purposes of consumption of tobacco products.

Enforcement
The Department of Public Safety is charged with the enforcement of this policy. Violations by students will be treated as violations of the Student Code of Conduct. Violations by employees will be treated as disciplinary matters. Educational programming, cessation support mechanisms, and other resources have been developed and are available to the College community through the College Health Office.

Weapons on Campus
Firearms and dangerous weapons of any type are not permitted on campus. Intentional use, possession or sale of firearms or other dangerous weapons by students is strictly forbidden and is a violation of the Student Code of Conduct and state law.
**College Administration**

**Regional Board of Trustees**

Coming Community College receives its authority from the State University of New York (SUNY) and is governed by fourteen trustees. Seven trustees are appointed by its supporting counties – Chemung, Schuyler, and Steuben. Six are appointed by the Governor of New York State, and one is elected by the students. All trustees are residents of the College region and serve seven-year terms, except the student trustee who serves a one-year term. Their terms of service vary in length, and they can be reappointed for extended terms.

Carl H. Blowers, Chair  
Nancy M. Wightman, Vice Chair  
Michael Wayne, treasurer  
Ronald Allison  
Gail O. Baitly  
Polly Chu  
Dr. Christa Heyward  
Nykole Parks  
George Welch, Jr.  
Alan S. Winston  
Anna Moretti, Student Trustee

**Office of the President**

William P. Mullaney, President  
Jina Toribio, Executive Office Manager  
Maarit Clay, Director of Strategic Initiatives

**Academic Affairs**

L. Dean Fisher, Provost  
Brenda Guild, Administrative Assistant

**Academic Divisions**

Deborah Beall, Associate Dean, Professional Studies  
Bradley Cole, Associate Dean, STEM  
Byron Shaw, Associate Dean, Humanities and Social Sciences

**Administrative Services**

Todd Garnier, Vice President  
Tanya Jones, Administrative Assistant  
Peter Mizera, Director, Information Technology  
Stacy Housworth, Associate Dean  
Calvin Williams, Director, Physical Plant

**Development Foundation**

Angela May, Executive Director  
Kristen Morse, Executive Assistant  
Kesha Davis, Assistant Director, Advancement Support Services  
Jordan Anderson, Alumni Development Coordinator  
Heather Barber, Annual Fund Officer

**Development Foundation Board of Directors**

The Development Foundation’s Board Members work with businesses and philanthropists in our community to maintain a strong financial presence for the College.

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Jill M. Koski  
Russell B. Smith  
Carl H. Blowers, Ex-Officio Member  
Dr. William P. Mullaney, Ex-Officio Member

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Stacy Johnson, Assistant Dean  
Ryan Steinberg, Director

**Workforce Education and Academic Pathways**

Jeanne Eschbach, Executive Director  
Katie Crowe, Administrative Assistant

(Elmira Center & Workforce Education)

Laura Clark, Director  
Tyre Bush, Director of Academic Pathways  
Nancy Riesbeck, Secretary
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Learning transforms lives
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<td>Humanities &amp; Social Sciences</td>
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Glossary

The following terms and definitions are probably only a few of those which you might find confusing. Ask your advisor or the Educational Planning Center for the explanation of any confusing term which you find used at CCC.

A.A. Degree
Associate in Arts degree. A transfer degree requiring at least 45 hours of liberal arts and sciences courses.

A.A.S. Degree
Associate in Applied Science degree. A career degree preparing students for employment upon completion of their CCC program. Requirements include at least 20 hours of liberal arts and sciences courses while the remaining courses provide the training needed for the student’s chosen career field. Although not designed for transfer, many four-year colleges do accept CCC graduates with A.A.S. degrees.

ADI
Associate Dean of Instruction. Oversees an academic division.

A.O.S. Degree
Associate in Occupational Studies degree. A career degree in which all the courses relate directly to preparing students for specific careers. It differs from the A.A.S. degree program in that it does not require any liberal arts and sciences courses.

A.S. Degree
Associate in Science degree. A transfer degree requiring at least 30 credit hours of liberal arts and sciences courses.

Academic Progress
Set of standards established by an institution that a student must maintain in order to keep matriculation in a degree program and eligibility for financial aid.

Academic Standing
Official designation by an institution of a student’s standing with reference to academic progress standards.

Advanced Standing
Receiving credit for prior course work, life experience, or examination.

Articulation Agreements
Formal agreements between CCC and bachelor degree-granting colleges describing conditions for transfer such as GPA and program or course requirements. Also called transfer articulation agreement.

Associate Degrees
Degrees which require a minimum of 60 credit hours (excluding physical education and certain writing modules) and may be completed in two years of full-time study.

Auditing a Course
A student is not taking a course for credit, is not required to submit assignments or take tests, and any assignments submitted might not be graded by the Instructor.

Baccalaureate Degrees
Degrees which are completed in approximately four years of full-time study, generally about 120 to 128 credit hours. They require two years of study at a transfer college after graduating from CCC.

Career Program
Programs designed to prepare you for a career at the end of two years. They generally lead to A.A.S. (Associate in Applied Science) or A.O.S. (Associate in Occupational Studies) degrees and immediate employment.

Certificate
Programs requiring approximately 30 hours of course work in a specific career area. Students do not earn an associate degree, but most courses can be applied toward a degree if a student wishes to take additional courses later.

COIL
Collaboration Online International Learning. An initiative linking SUNY courses with international partners.

Co-requisite
A course that must be taken at the same time as another course. Course descriptions will identify any co-requisites.

Credit Hour
Courses are assigned credit hours or equivalent credit hours. A three-credit hour course would meet approximately three hours per week during a regular semester. Laboratory and studio courses require additional time. Equivalent credit hours are awarded in courses which are not applicable to an associate degree. A credit hour is assigned for every fifteen 50-minute sessions of classroom instruction per week for a semester of fifteen weeks, with the expectation of two hours of outside study for each classroom session. If less than two hours of outside study is expected for each session, the amount of in-class time is increased accordingly, as in laboratories and studio courses. Classroom instruction time is also adjusted proportionally for modified academic calendars. For full information on SUNY policy, see SUNY document number 1305, Credit/Contact Hour, http://www.suny.edu/sunypp/documents.cfm?doc_id=168.

Credit Load
The total number of credit and equivalent credit courses for which a student has registered. Example: A registration of 9 credit hours and 4 equivalent credit hours equals a load of 13 hours.

Curriculum
All courses offered. Also refers to program and the full scope of courses needed to complete it.

Educational Planning Center
The Educational Planning Center (EPC) combines the services of registration, financial aid, and student accounts to create a simplified one-stop location where students can receive assistance with all of these administrative processes.

Email
The College uses @corning-cc.edu as an official communication tool for students and employees.

Equivalent Credit Hours
When the content of a course is developmental and not considered college level, equivalent credit hours are earned and are not counted toward degree requirements. Registration in these courses does not count toward full-time status for financial aid purposes unless enrollment is a result of placement tests.

Free Elective
Almost any course. Exceptions include physical education activities, equivalent credit courses, and courses designated for a particular program only.

Full-Time Student
Anyone enrolled for 12 or more load hours in a semester. A typical course load would be 15 credit hours per semester or approximately five courses.

General Education
An undergraduate curriculum of broad, high-quality courses that provides students with a set of non-specialized, coherent and focused educational experiences aimed at enabling students to acquire knowledge and skills that are useful and important for all educated persons regardless of their jobs or professions. Local General Education Requirements. General education requirements established by individual SUNY campuses to either add specificity to the SUNY-GER.

Programmatic General Education Requirements. Specific general education requirements associated with individual academic programs, such as requirements in programs leading to teacher certification that are externally mandated. These may be met within the 30-credit SUNY-GER, but they may also exceed the SUNY-GER (e.g., additional courses, minimum course grades).

SUNY General Education Requirement (SUNYGER). See SUNY.

Good Standing
Students who meet the minimum requirements of the Student Progress Policy are considered to be students in good standing.
GPA (Grade Point Average)
Overall Grade Point Average (GPA): For each credit hour, points are assigned based on the grade received. This average is calculated by dividing the total grade points earned by the number of credit hours taken.

Program Grade Point Average (PGPA)
This is based only on courses being used to fulfill degree and program requirements and is calculated at the time of graduation. Students must have a minimum 2.0 PGPA to graduate.

Humanities
Art; Music; Foreign Languages; Philosophy; most 2000-level English; Media Communications; Speech; or Theatre; and courses with the prefix HUMA.

Institutional Learning Outcomes
The Institutional Learning Outcomes are the expectation of student achievement through curricular and co-curricular activities

Laboratory Science
Any science course which has a laboratory experience along with lectures. Examples include Astronomy, Biology, Chemistry, Geology, and Physics.

Liberal Arts and Sciences (LAS)
The New York State Education Department requires a minimum number of credits in liberal arts and sciences courses in each registered undergraduate degree program. In all cases, SUNY General Education courses may be counted as liberal arts and sciences courses.

Liberal Arts Elective
Any course from the areas of Communication, Humanities, Sciences, Mathematics, and Social Sciences.

Matriculation
This is a process that involves application to the College, admission to a specific academic program and enrollment in courses. An advantage of matriculation is that you officially come under the set of regulations described in the catalog in effect at the date of your matriculation. You must be matriculated to receive financial aid.

Module
A short .5 or one credit course; sometimes independent studies outside a regular classroom setting.

MyCCC
Online access to your educational record.

Occupational Degree
A.A.S. and A.O.S. degrees are generally considered occupational degrees. Students in these programs are preparing for a career or job upon graduation from CCC.

Part-Time Student
Anyone who is enrolled for fewer than 12 load hours in a semester.

Placement into Courses
Except in special circumstances, students entering CCC are required to take assessment tests to determine their level of reading, writing, and mathematical ability for placement into appropriate entry-level courses.

Prerequisite
A requirement that must be met before you take a course. Each course description indicates whether or not there is a prerequisite.

Prior Learning Assessment (PLA)
The award of academic credit based on the evaluation of verifiable college-level learning achieved outside of a traditional academic environment.

Probation
Students who have met the minimum requirements of the Student Progress Policy but have a CGPA below 2.0 are placed on probation. Students on probation are in good standing, but the number of credit hours for which they can register is limited.

Recitation
In addition to lectures and laboratories, some courses require a recitation, which is an individual or small group meeting with an instructor.

Registration
The process of selecting and registering into courses through self-service or through an advisor.

Retest for Course Placement
Students are allowed one retest without special permission. See Educational Planning Center for details. To confirm placements, students can view their placement information on their MyCCC account under student records and view placements.

Social Sciences
Anthropology, Economics, Geography, Government, History, Psychology, or Sociology.

STEM
Division of Science, Technology, Engineering, and Mathematics.

SUNY
All of the units of the State University of New York, including CCC. SUNY General Education Requirement (SUNY-GER) The 30-credit requirement for SUNY baccalaureate degree recipients, which supports academic excellence as well as student choice, mobility and degree attainment by expecting students to demonstrate achievement of University-wide learning outcomes in seven of ten knowledge and skill areas (two of which are required) and two required competency areas (Basic Communication and Mathematics).

Suspension
Students who do not meet minimum academic requirements under the Student Progress Policy are prohibited from attending CCC for one academic year.

Sustainability
Meeting the needs of the current generation without compromising the needs of future generations.

Syllabus
A statement of the requirements in a course and the course material to be covered. Each professor should give you a syllabus in the first week of class.

Tobacco
Includes any lighted or unlighted cigarette, e-cigarette, cigar, pipe, bidi, clove cigarette, and any other smoking product, and smoke-less or spit tobacco, also known as dip, chew, snuff or snus, in any form.

Transcript
An official copy of the permanent record of every course taken and the resulting grades. This permanent record is maintained in the Office of the Registrar.