



2021-2022 Catalog

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August 2021

FingerLakes
COMMUNITY COLLEGE

General Catalog

2021-2022

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All courses of instruction at Finger Lakes Community College are registered with the Office of Higher Education of the State Education Department. Finger Lakes Community College is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104-2680; Phone: 267.284.5000. The Finger Lakes Community College Nursing Program is accredited by the Accreditation Commission for Education in Nursing. The Emergency Medical Technician- Paramedic Program is seeking initial program accreditation by the Commission on Accreditation of Allied Health Education Programs.

The documents describing the accreditation by (1) the Commission on Higher Education of the Middle States Association of Colleges and Schools;
(2) the National League for Nursing Accrediting Commission; and (3) the Commission on Accreditation of Allied Health Education Programs can be reviewed by request at the reserve desk in the College's Library.

All information in this catalog was current on the date of publication; however, Finger Lakes Community College reserves the right to change programs, course descriptions, faculty, tuition and fees, and/or college policies as directed by the State University of New York or the Board of Trustees of Finger Lakes Community College without prior notice. Any such changes, additions, deletions, etc. will be published separately and will be available through the College website.

August 2021

Member College of the State University of New York

Finger Lakes Community College does not discriminate against any employee, applicant for employment, student or applicant for admission based on an individual's race, color, national origin, religion, creed, age, disability, sex, gender identification, gender expression, sexual orientation, familial status, pregnancy, predisposing genetic characteristics, military status, veteran status, domestic violence victim status, criminal conviction or any other category protected by law. The College adheres to all federal and state civil rights laws prohibiting discrimination in public institutions of higher education.

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General Information

Overview of the College

Finger Lakes Community College provides a high quality educational experience that serves as a basis for life-long learning. Affordable tuition, grants, loans, and scholarships are available to provide open access to higher education. Through its transfer and career programs, the College provides a solid education that prepares students to be successful in meeting their academic and career goals. Transfer programs parallel the first two years of a four-year college or university, thus acting as a stepping stone for those who plan to pursue advanced study and training. Career programs help students achieve their goal of specialized education that will lead to satisfying jobs in a wide range of fields.

Finger Lakes Community College is proud of the many exceptional co-curricular opportunities available to students outside of the classroom. A wide variety of clubs brings students together who share mutual interests. Many extracurricular activities and events are planned through the Student Corporation to enhance and expand students' social growth and awareness. Athletic events, theatre productions, and visiting lecturers and artists create a well-rounded, positive cultural environment.

Finger Lakes Community College takes pride in being large enough to offer a wide range of programs and services, while retaining a small-college, personal feel. The smaller-sized classes allow for close interaction between student and professor, which, in turn, leads to a challenging, exciting, and rewarding teaching/learning environment. The highest priorities for the College's faculty members are teaching, advising, and guiding students toward achieving their educational goals.

College History and Uniqueness

Finger Lakes Community College was established in 1965 as a unit of the State University of New York, under the sponsorship of Ontario County. It was created as a two-year, co-educational institution of higher learning serving the citizens of the county, region, and state.

The College opened in September 1967 offering specialized, non-credit courses under the Division of Continuing Education. The first full-time freshman class entered in February 1968. At that time, enrollment totaled 85 full-time and 125 part-time students. There were seven full-time faculty members. Today, about 5,500 full and part-time students are enrolled. The College now employs approximately 330 full-time and 400 part-time faculty and staff.

Finger Lakes Community College provides an opportunity for students and faculty to work together to accomplish educational goals. Each student is seen as an individual, with diverse needs and unique strengths.

The 250-acre park-like campus is located adjacent to the scenic and recreationally-rich Canandaigua community, 45 minutes southeast of Rochester, in the heart of the Finger Lakes region. The multi-level campus includes updated "smart" classrooms, science and computer laboratories, a simulated hospital nursing station, four recording studios, a large music rehearsal hall, a greenhouse, and a gymnasium, turf athletic fields and fitness center. The Williams-Insalaco Gallery 34 is open to the public and offers outstanding rotating art exhibits by students, alumni, faculty and special guests. The library houses a fine collection of books, periodicals and electronic resources to support the college's academic programs, as well as quiet study space and academic support services, where tutoring is available for students. In 2012, the College opened a Student Center, which includes an auditorium, an expanded cafeteria and bookstore, space for student activities and the College's Student Life offices. In addition, all enrollment services – Admissions, Financial Aid, Student Records, Student Accounts and Academic Advising, Career and Transfer Services – are reorganized into a One Stop Center, offering students a convenient, centralized location to address all of their enrollment needs.

The beautiful foliage and tranquil setting of the campus have been preserved. Campus grounds include streams, ponds, nature trails, wooded areas, and outdoor classrooms. The grounds also include a number of scenic study spots, including a Serenity Garden, an arboretum, gazebo, and picnic pavilion. The College's unique Honors Program is housed just across the street from the main entrance to campus, in a freestanding Honors House. Additionally, the 48-acre Muller Field Station, located near the southern end of Honeoye Lake, and the College's East Hill Campus in Naples provide students with unique outdoor experiences. In 2015, the FLCC Viticulture and Wine Center, a teaching winery for the Viticulture and Wine Technology program, opened in Geneva.

A 353-room residence hall, The Suites at Laker Landing, is located adjacent to campus and provides housing exclusively for Finger Lakes Community College students. Each suite is comprised of private bedrooms and common kitchen, living area, and bathroom(s). The Suites at Laker Landing is privately owned and operated by Association Housing, LLC.

Finger Lakes Community College operates campus centers in Geneva, Victor and Newark, thereby serving the populations in the eastern and northern sections of its four-county service area.

The campus is also the site of the Constellation Brands Marvin Sands Performing Arts Center (CMAC).

Mission and Vision Statements

Mission and Vision Statements approved by resolution #06-14 of the Finger Lakes Community College Board of Trustees, January 8, 2014.

Mission Statement

Finger Lakes Community College serves as a dynamic learning resource, empowering our students to succeed and fueling the cultural and economic vitality of the region.

Vision

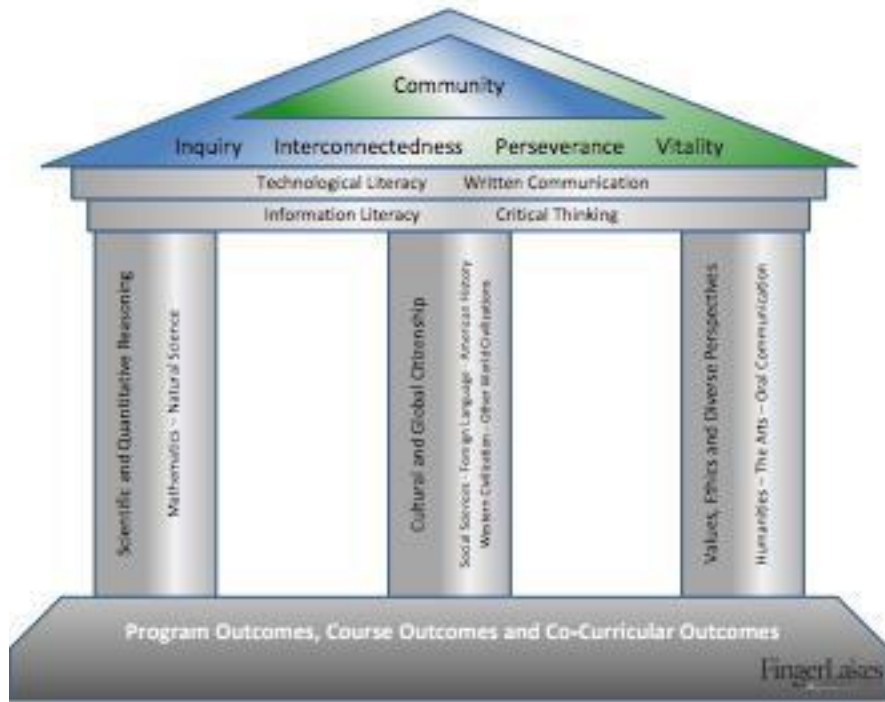
Finger Lakes Community College will build innovative programs to meet evolving educational needs, drawing on partnerships in the community and beyond. FLCC will offer an educational environment that is intentionally designed to engage our students as learners and propel them to completion.

Values

Finger Lakes Community College values its rich history of developing and providing high quality programs and services for the benefit of our students and community. From the historic Canandaigua storefronts to the natural beauty surrounding our campus locations, we continue to value development of the individual, through inquiry, interconnectedness, perseverance, and vitality. These values form the core of our institutional learning outcomes, explicated below in the discussion of FLCC's Learning Framework.

FLCC Learning Framework

Finger Lakes Community College adopted its first official set of college-wide learning outcomes in 1992. This forward-thinking effort created a set of outcomes to guide the educational experiences of all FLCC students regardless of program. In 2014, the faculty undertook a major reform of these outcomes, seeking to update them and ensure they primarily reflect the unique values of an FLCC education. At the same time, changes in SUNY and regional accreditation requirements led the faculty to rethink the basic outcomes that form FLCC's general education curriculum. At the end of 2014, the Academic Senate approved a new framework that guides the general education curriculum at FLCC. A graphic of the framework is below.



Inquiry, perseverance, interconnectedness and vitality, the FLCC values chosen to represent our college experience, form the pinnacle of the framework.

FLCC graduates demonstrate the core FLCC values: Inquiry, Interconnectedness, Perseverance and Vitality

- **Inquiry:** Pose insightful and productive questions. Generate, evaluate, integrate, and cite compelling evidence to support reasonable conclusions.
- **Interconnectedness:** Express connections between disciplines with creativity and clarity.
- **Perseverance:** Take actionable steps to see tasks through to completion, both independently and collaboratively.
- **Vitality:** Consider the impact of individual action on personal and community well-being, for example physical, environmental, social, occupational, and fiscal wellness.

Below those values there are a set of overarching skills: critical thinking, information literacy, written communication and technological literacy. Each student will obtain competency in these skills by graduation.

The third section of the graphic represents the general education courses required by SUNY. These courses will help students meet both the FLCC values and overarching skills requirements.

FLCC faculty and staff are currently developing the curricular and assessment changes necessary to fully implement this framework. However, as part of the Framework, students complete the SUNY approved general education requirements set out by their degree program and approved through our regional accreditation from the Middle States Commission on Higher Education.

Graduate Statistics

A Graduate Follow-Up Survey is administered each year at approximately six months after graduation. Recent graduates are asked about their subsequent education, employment and their opinions about the contribution of their Finger Lakes Community College education to their successes. Thirty eight percent of 2020 graduates responded to the Graduate Follow-Up Survey.

Overall, from the class of 2020, 33% of responding graduates were continuing their education. Fifty eight percent of FLCC's Transfer Program (A.A & A.S) graduates reported continuing their education and 66% were employed at the time of the survey. For Career Program (A.A.S) graduates, 24% reported they were continuing their education and 76% were employed at the time of the survey. Respondents transferred to over 50 different colleges and were hired by over 150 different employers.

Degrees and Certificates Awarded

Finger Lakes Community College is authorized by the Board of Regents of the University of the State of New York to grant the following degrees and certificates:

Associate in Arts

- American Sign Language
- Creative Writing
- Liberal Arts and Sciences: Childhood Education (Teacher Education Transfer)
- Liberal Arts and Sciences: General Studies Track
 - French Track
 - Humanities Track
 - Literature Track
- Theatre Arts

Associate in Science

- Biotechnology
 - Business – Business Administration
 - Communications
 - Computer Information Systems
 - Computer Science
 - Engineering Science
 - Environmental Science (Biophysical Track)
 - Environmental Conservation Law Enforcement
 - Fine Arts
 - Game Programming and Design
 - Health Care Studies
 - Healthcare Track
 - Health Science Track
 - Public Health Management Track
 - Human Services
 - Kinesiology and Human Performance
 - Liberal Arts and Sciences: General Studies Track
 - Mathematics
 - Music
 - Music Recording Technology
 - New Media
 - Nutrition and Dietetics
 - Physical Education and Exercise Science
 - Psychology
 - Sports Studies
-

Associate in Applied Science

- Architectural Technology
- Business – Accounting
- Business – Business Administration
- Chemical Dependency Counseling
- Criminal Justice
- Culinary Arts
- Emergency Medical Technician – Paramedic
- Environmental Conservation Law Enforcement
- Fish and Wildlife Technology
- Graphic Design
- Horticulture
- Horticulture: Cannabis Biology and Cultivation Track
- Hospitality and Tourism Management
 - Event and Tourism Management Track
 - Food and Beverage Track
 - Hotel and Resort Management Track
- Marketing
- Mechanical Technology
- Natural Resources Conservation
- Networking and Cybersecurity
- Nursing (Leading to R.N. licensure)
- Paralegal and Legal Studies
- Smart Systems Technologies
- Advanced Manufacturing Track
- Viticulture and Wine Technology
 - Enology Track
 - Viticulture Track
- Web and Mobile Development

Certificates

- Corrections Officer
 - Criminal Justice
 - Culinary Arts
 - Emergency Medical Technician – Paramedic
 - Event and Tourism Management
 - Food and Beverage Management
 - Horticulture
 - Hotel and Resort Management
 - Natural Resources Conservation
 - Paralegal
 - Smart Systems Technologies
 - Teaching Assistant
 - Viticulture
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Admission Policy

Finger Lakes Community College complies with the Full Opportunity Plan of the State University of New York. Admission to Finger Lakes Community College is open to any person whose academic potential, record, and/or qualifications demonstrate that the student may successfully pursue one of the programs of study offered by the College.

Finger Lakes Community College does not discriminate in its employment and educational processes, access to services, programs, and activities, based on an individual's race, color, national origin, religion, creed, age, disability, sex, gender identity, gender expression, sexual orientation, familial status, pregnancy, predisposing genetic characteristics, military status, domestic violence victim status, or criminal conviction.

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 Educational Amendments of 1972, Title VI and 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, including sexual harassment and violence.

Inquiries regarding the application of the Civil Rights including Title IX and other laws, regulations, and policies prohibiting discrimination may be directed to the Civil Rights Compliance Officer (Title IX Coordinator/ Affirmative Action Officer), Michelle Polowchak at (585)785-1451 or Michelle.Polowchak@fllc.edu. The office is located on the first floor of the Canandaigua campus in room B140D. Inquiries may also be directed to the United States Department of Education's Office of Civil Rights, 32 Old Slip 26th Floor, New York, NY 10005-2500; Tel. (646)428-3800; or email OCR.NewYork@ed.gov.

The Admissions Office can be reached by calling 585.785.1279 or emailing admissions@fllc.edu. We recommend that students considering Finger Lakes Community College visit the campus and attend an Admissions Information Meeting to gain a firsthand perspective of the College.

Requirements for Admission

The following is required of applicants who wish to become candidates for a degree at Finger Lakes Community College:

1. Submission of a complete Finger Lakes Community College Application for Admission. A Finger Lakes Community College application form is preferred; however, the State University of New York College Application form is also accepted. There is no application fee for the FLCC application.
2. Students are required to adhere to the College's Immunization Policy. Students in selected programs and student athletes may be required to submit additional health and immunization documentation.
3. Applicants who have not earned a high school diploma or GED/TASC may be eligible for the 24-credit hour program and must complete testing in reading, writing, and arithmetic. Those who take these tests must be 18 years old or one year past his/her high school graduation year and must achieve minimum scores on each test as required by Federal guidelines in order to gain admission. A non-high school graduate under the age of 18 or whose class has not yet graduated may not apply for matriculation status. Students who wish to be considered as an exception to this policy should contact the Admissions Office. Additional requirements and information can be found in the catalog section addressing the 24 credit hour program.
4. Students lacking prerequisites for entry into their program of interest may be advised to take courses designed to prepare them for course work in their chosen major.
5. Admission to the Nursing Program is competitive. Students qualify for a review of their application upon completion of the following prerequisites:
 - Submission of an official high school transcript showing graduation from an accredited high school or receipt of a high school equivalency diploma.
 - One unit of high school biology (Regents recommended) or one semester of college biology.

- Students must have obtained a minimum overall GPA of 2.5.

Transfer students are required to submit official college transcripts from all institutions previously attended. A minimum GPA of 2.5 is required. If multiple colleges have been attended, GPA will be recalculated.

- Any student required to take Basic Skills tests for English placement must place into ENG 101 to finalize acceptance into the Nursing program.
- Nursing applicants must have successfully completed one unit of high school algebra, college algebra, or FLCC MAT 155 Mathematics for Health Care Professionals to fulfill the math prerequisite for Nursing. This requirement is not satisfied for students who have completed a high school equivalency program (GED or TASC).
- One unit of high school chemistry (lab included) or the college equivalent to this course (nursing applicants only). Students without chemistry may be admitted provisionally to the Nursing Program; however, they must successfully complete CHM 092 Introduction to Chemistry or its equivalent prior to starting professional nursing course work.
- The Test of Essential Academic Skills (TEAS) must be taken and official scores submitted to the Admissions Office by the stated application deadline. Candidates must achieve a minimum score of 65 on the TEAS to be considered for admission.

While students may qualify for review upon completion of the above prerequisites, applicants with the strongest academic credentials will have the greatest chance of admission. Additional information about selection criteria can be obtained from the Admissions Office. For consideration, nursing applicants must have a complete application on file in the Admissions Office by February 1 of the year in which admission to the Nursing Program is being sought.

6. The deadline for students to matriculate into the College for the fall semester is November 1. The deadline for the spring semester is March 1.
7. Home-Schooled Applicants: Finger Lakes Community College adheres to the State University of New York (SUNY) policy for the Admission of Home Schooled Students. Under New York State law, an institution of higher education may admit as matriculated students only persons who have a high school diploma or its recognized equivalent. Because of this requirement, the State University of New York has established a specific policy regarding the requirements for degree conferral and enrollment of home-schooled students.

In order to complete their application for admission and be reviewed for acceptance into the college (SUNY and FLCC policy), home-schooled applicants must provide documentation of their home-schooled education in one of the following ways:

- a) Submit certification of a high school equivalent home instruction program provided by the superintendent of the school district in which the student resides. A form for the collection of this required information from the superintendent will be mailed to the home-schooled applicant by the FLCC Admissions Office.
- b) Submit a copy of GED or TASC test score results, showing successful completion.
- c) Submit a transcript demonstrating successful completion of five prescribed Regents Comprehensive Examinations.

The New York State Department of Education does not recognize a high school program of correspondence study completed by a New York resident. Therefore based on this policy, Finger Lakes Community College cannot accept completion of correspondence school (online) study as the equivalent of a high school diploma.

Procedures for Admission

1. Applicants must complete an online Finger Lakes Community College application form and request that official high school (or equivalent) and college transcripts be sent to the Admissions Office.
 - Current high school students applying for admission upon graduation should request that their high school counselor send their transcript directly to the Admissions Office. In addition, the applicant is responsible for forwarding a final, official high school transcript to the Admissions Office once his/her graduation has been recorded.
 - High school graduates must send an official high school transcript from an accredited high school to complete their application. Applicants who have submitted official transcripts showing completion of an associate or bachelors degree from an accredited college or university are not required to submit high school transcripts or a High School Equivalency Diploma in order to be reviewed for acceptance.
 - Applicants with a High School Equivalency Diploma (GED or TASC) are responsible for providing a copy of their GED/ TASC test.
 - Applicants who have not earned a high school diploma, as well as those who have completed an Individualized Education Program (IEP) Diploma, should contact the One Stop Center for further information regarding the admissions process. Additional information
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regarding non high school graduates can also be found in the catalog sections addressing the “Basic Skills Testing and Placement” and “Requirements for Admission.”

2. The results of standardized tests such as the American College Test (ACT) or the Scholastic Application Test (SAT) may be submitted to assist in academic advisement but are not required for admission as such test results are not criteria for admission.
3. All applicants are encouraged to schedule a campus visit before or after formal acceptance to the College. General information about the College, programs, financial aid, registration, etc., will be discussed, and prospective students’ questions will be answered. Campus tours are also available.
4. The College does not provide special academic programs for students with learning and physical disabilities. It does, however, provide support services to assist students with learning and physical disabilities in regular classes. Students are encouraged to contact the Disability Services Office to complete a Disability Services application form and gain more information about the range of services available. Information about Disability Services is available at www.flcc.edu/asap.
5. With the formal acceptance to the College, applicants will receive a letter of acceptance with enrollment instructions.

Admission Status

All applicants will be notified of their admission status in writing by the Admissions Office. Admission may be conditional, pending the successful completion of any specific academic degree program prerequisites as indicated in this catalog. The Admission Committee will forward letters of acceptance to persons applying for both the fall and spring semesters. Nursing applicants are notified by the end of March.

Disciplinary Dismissal

Applicants who have been suspended or dismissed from a college or university for disciplinary reasons, must participate in an admissions review process which includes completion of a supplemental Admissions Review Form and, in some cases, an interview with Review Board. The College complies with the State University of New York Policy for Ex-Offenders. This policy also applies to former students, current students, and applicants who have requested that the Admissions Office reactivate their matriculated status from a previous semester. Failure to disclose a disciplinary dismissal on the Admissions Application Form or any other paperwork/process which requests this information may result in dismissal from the College.

Transfer Students

Transfer students who have acquired college credit from other institution(s), must submit official college transcript(s) to the Admissions Office at the time of application to be considered for transfer credit. Upon acceptance, the Student Records Office will complete a transfer credit evaluation and an email notification of credits awarded will be sent. The transfer credit evaluation will be available on WebAdvisor.

To have a course accepted for transfer at FLCC, the course content, learning outcomes, and length/time of instruction of the course will be the primary determining factors to its transferability. Credits earned at an institution accredited by one of the six regional accrediting agencies (e.g. Middle States Association) or by the New York State Board of Regents, or approved by The American Council on Education (ACE) more readily transfer than others. FLCC does not determine transferability exclusively on the basis of the sending institution’s accreditation.

The sending institution must be accredited by an agency the USDE recognizes and, if the institution is not accredited by one of the above regional or state agencies, a complete course syllabus may be required to determine transferability. Only coursework completed with a grade of

“C-” and higher will be considered for transfer, and the coursework must meet degree requirements within the student’s chosen degree program. Grades from previous colleges do not apply to a student’s FLCC grade point average. Transfer credit appears on the FLCC transcript and degree evaluation with a grade of “T” and carries earned credit hours only.

Credits may be accepted for transfer from non-accredited colleges and universities; evaluation for transfer credit will be made on a course-by-course basis.

Training that has been evaluated by the American Council on Education (ACE) may be transferred as college credit based on ACE recommendations. Individuals who have served in the military should submit an AARTS, SMART, CLAF, or Joint Services transcript to the

Admissions Office; DD214 forms will be evaluated for physical education credit. Military transfer credit is awarded based on American Council on Education (ACE) recommendations and applicability to degree program.

Credits earned at a college or university outside of the United States must be evaluated by a professional credential evaluation agency. These agencies provide a professional course by course evaluation of college and university credits. Charges for this service may vary. Agencies providing this service include Educational Credential Evaluators and World Education Services.

Credits Earned by Examination

Students may transfer college credits to FLCC that were earned through College Level Examination Program (CLEP) Subject or General Exams, Dantes Subject Standardized Tests (DSST), Excelsior College Exams (formerly Regents College Examinations), Departmental Challenge Examinations, and high school Advance Placement (AP). A maximum of 32 credit hours may be granted to a matriculated student through any combination of the above.

Students who have earned college credit through one of the examination methods above (except departmental exams) must submit an official examination grade report to the Admissions Office when applying for admission. Questions about the applicability of credit for a specific exam to a degree program should be directed to the Student Records Office.

FLCC utilizes the ACE (American Council on Education) recommendations for minimum score, number, and type of credits awarded, for these examination programs. See the FLCC website (www.flcc.edu/offices/admissions/transfer.cfm) for information regarding how specific examinations will transfer to FLCC.

Departmental Challenge exams may be offered for college credit at the discretion of the individual department for any course that is not represented in the other approved examination programs. The exact nature of the examination is the responsibility of the academic department. Students interested in taking a departmental examination should consult with the respective department chairperson.

International Baccalaureate

Students who have completed high-level International Baccalaureate (IB) courses while in high school with a minimum score of four may be eligible to receive transfer credit for their IB coursework.

SUNY Transfer Appeal Process

Students who do not agree with the college's decision regarding transfer credit awarded at FLCC that was earned at a prior SUNY institution may submit an appeal to the Provost's Office (B110/585.785.1209). Students requesting an appeal must provide reasonable material to support their case, such as the course description or syllabus. If an agreement cannot be reached, an appeal may be made to the SUNY system provost at www.suny.edu/provost/academic_affairs/studenttransferappeal.cfm.

Residency Requirements

In order to be eligible to receive an associate's degree from Finger Lakes Community College, transfer students must complete a minimum of 50% of their credit hours with FLCC. Students must also complete a minimum of 50% of the credit hours required in the intended discipline(s) of study at Finger Lakes Community College (e.g.: computer science, criminal justice, Horticulture, tourism management).

To receive a certificate a student must complete a minimum of 50% of the credits required at Finger Lakes Community College. Petition for waiver may be submitted by the department offering the discipline(s), on behalf of the student, to the Associate Vice President.

International Student Admissions

Finger Lakes Community College is authorized under federal law to enroll nonimmigrant students. International students applying to the College must complete an International Student Supplemental Application to be considered for admissions. Admissions application forms can be obtained by emailing the Finger Lakes Community College Admissions Office at admissions@flcc.edu. Applicants must also submit an official TOEFL test score report and official transcripts. Official transcripts or diplomas that are not in English must be accompanied by an exactly worded and certified translation. Completed international student applications must be received in the Admissions Office by December 1 to be considered for the spring semester and by June 1 for the fall semester. The minimum TOEFL score necessary to be considered for admissions at Finger Lakes Community College is 46.

Admission for Second Associate Degree Program

Current and formerly enrolled students who have been away from the College for less than 6 years and who are interested in obtaining a second degree should make application through the One Stop Center by completing a Rematriculation Application. Former students who have been away from the College for 6 years or more must complete the admissions application.

A minimum of 15 of the academic credits in a different field, exclusive of general education requirements, must be earned in degree specific courses for the second, or concurrently awarded, associate degree. Students may pursue/complete only one AA or AS Liberal Arts and Sciences degree (including Tracks) at FLCC.

If the two degrees are earned simultaneously, they may be awarded concurrently. Students are limited to pursuing a maximum of two degrees simultaneously.

Placement Testing

FLCC uses multiple measures to determine your basic proficiency level in reading, writing, math and music. Using your high school transcript, or after taking a placement exam, you will be placed in the most appropriate courses for your skill level, educational path and goals. If you are a new student at FLCC, or choose to enroll in courses with prerequisites, you'll be required to complete placement testing for English, Mathematics, and/or Music. Students entering the Music or Music Recording Technology programs are required to take the music theory test. FLCC administers online assessment tests in English, math and music. You can take your tests at all FLCC campuses or off-site locations. Testing must be completed prior to registration.

Exceptions to these eligibility requirements are at the discretion of the Director of Academic Advising, Career & Transfer Services and the Mathematics and Humanities Department Chairpersons. The music theory section of the test cannot be re-taken.

Exemptions to Testing

Some students may be exempt from testing. A complete list of exemptions is found on the website..

Immunization Requirements for College Students

Measles, Mumps, Rubella, COVID-19

New York State requires students attending the College to show proof of immunity* against measles, mumps, rubella and COVID-19**. The College asks any student taking face to face courses are required to comply with our policy. Students that do not have an on-campus presence will be required to Affirm Understanding of COVID-19 vaccinations procedures and protocols.

*Persons born before January 1, 1957 are exempt from measles, mumps, rubella requirement.

** COVID-19 vaccinations are mandated beginning with the Fall 2021 term for any student who attends face-to-face classes or has an in person presence at Finger Lakes Community College. This requirement goes into effect once the FDA grants permanent approval to one of the COVID-19 vaccines recognized in the United States.

Law will not permit continued attendance by individuals failing to present the required proof by the 30th day of the semester. Students who have not submitted proof of immunity by the 30th day will be administratively withdrawn from classes.

Students who have been administratively withdrawn for lack of compliance with the N.Y.S. Immunization Law and are seeking to be reinstated must contact Student Health Services.

Noncompliance can jeopardize course completion, future registrations, and financial aid eligibility. Students administratively withdrawn from classes, due to their failure to comply with the law, will not be granted refunds of tuition or fees. (Please refer to the section on Tuition and Fees for further information concerning financial obligations.)

In the event that an outbreak of one of the illnesses noted above occurs, access to College facilities will be restricted only to those having proof of immunity. Persons requiring additional information or having questions relative to health or religious matters should direct their inquiries to Student Health Services or call 585.785.1297.

Meningitis Response Requirements

All students enrolled in courses at FLCC must also (except students in the FLCC: Gemini Program) receive information on meningococcal meningitis disease and vaccine availability. The student or parent of a minor child must sign and return to Student Health Services a form indicating that they have received the meningitis information, and have either (1) had the vaccine, or (2) decline to receive the vaccine. The meningitis response form and information can be obtained from: http://www.flcc.edu/pdf/meningitis_form_factsheet.pdf. This form can also be completed through your WebAdvisor account; it is accessible under "Registration".

Proof of Immunity

- **Measles** – (two doses of live measles vaccine given 1968 or after [the first dose must have been given on or after 12 months of age. The second dose must have been given on or after 15 months of age], or physician-documented history of disease, or serologic evidence of immunity).
- **Rubella** – (one dose of live rubella vaccine received on or after the first birthday, or serologic evidence of immunity).
- **Mumps** – (one dose of live mumps vaccine on or after the first birthday, or a physician-documented history of the disease, or serologic evidence of immunity).
- **COVID-19** – (one dose Johnson & Johnson, or two doses of Moderna or Pfizer/BioNTech).

College Courses for High School Students

FLCC: Gemini – Concurrent Enrollment Program

Finger Lakes Community College and area high schools partner to provide eligible high school students with the opportunity to receive college credit. Qualified high school teachers are approved by Finger Lakes Community College and deliver the college course in their school.

When registering and paying for courses, a \$5 per credit hour student fee will be due. Students who are eligible for free and reduced meals will have the student fee waived. FLCC: Gemini is a viable option to provide students with course variety, alleviate the high stakes testing associated with AP and IB courses, and provide the academic edge needed for acceptance into highly selective colleges. Students in the FLCC: Gemini program are Finger Lakes Community College students with library and other student privileges. Students have the opportunity to apply their credits towards an FLCC degree upon high school graduation or transfer their college credits to other institutions by receiving an official transcript.

Note: It is the prerogative of any receiving institution to determine whether to accept transfer credit. All students should keep a portfolio of their work and consult with their anticipated future college choices before taking a college course.

Early College Scholars

FLCC recognizes young students may want to get a head start on their college career by completing courses on our campus or online. High school or home school students may enroll in coursework at FLCC through the Early College Scholars Program and if eligible, apply for a scholarship to help off-set the cost of tuition.

Participation

High school or home school students may participate in Early College Scholars to achieve different educational goals:

1. Students may enroll in FLCC's courses to get acclimated to a college setting while building their academic record.
 2. Students may enroll in FLCC's courses to supplement their current high school or home school curriculum, or based on an agreement with their school district, satisfy high school graduation requirements.
 3. High school students may also be part of a coordinated time-shortened degree program where students are participating in FLCC courses offered through their high school in addition to on-campus courses.
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Scholarship Availability and Student Eligibility

Early College Scholars may apply for scholarship funding to off-set the tuition expenses. The scholarship award is based on FLCC's part-time tuition rate for the academic year. The scholarship funds up to 50% of the student's tuition for up to 7 credits each semester at any FLCC campus.

To be eligible for the scholarship, applicants must:

- Be 18 years of age or under and enrolled in an approved secondary curriculum (home school or high school)
- Reside in New York State for one year
- Maintain an overall 2.5 FLCC GPA
- Satisfy FLCC course prerequisites and placement testing requirements
- Audited or repeated courses are not eligible for the scholarship

Students Under the Age of 16

Requests from individuals under the age of 16 to enroll in coursework at Finger Lakes Community College will be reviewed on a case-by-case basis by the Office of Concurrent Enrollment. Permission will be granted based on the student's academic and emotional preparedness for college-level work, completion of course prerequisites, and age appropriateness of course material. If permission is granted, the student would be permitted to enroll as a non-matriculated student only (i.e. non-degree seeking student) and limited to 7 credit hours per semester.

High school students enrolled in programs involving special articulation agreements between FLCC and area high schools are exempt from this policy.

Continued participation or subsequent enrollment will be evaluated on a semester basis based upon academic performance. Decisions may be appealed to the Provost, Vice President for Academic & Student Affairs with a final decision rendered within 15 working days of the appeal.

Individuals under the age of 16 wishing to enroll for a course as a non-matriculated student should contact the Office of Concurrent Enrollment at 585.785.1669 for further details.

UNITED STATES AIR FORCE ROTC

Through the Rochester Area Colleges consortium, full-time matriculated students at Finger Lakes Community College are eligible to participate in the Air Force ROTC (AFROTC) program and compete for scholarships. These are elective courses that prepare students for leadership in civilian or military careers.

Students awarded AFROTC scholarships are entitled to additional benefits including non-taxable monthly stipends and money for books. Students also have the opportunity to participate in Professional Development Training around the world during the summer months. Successful graduates are guaranteed at least four years of active duty leadership experience as Air Force officers.

Contact information for details on classes and scholarship opportunities: Air Force ROTC

Rochester Institute of Technology

17 Lomb Memorial Drive, Rochester, NY 14623-5603 Telephone: (585) 475-5197 or Toll Free at (877) 423-7682 Website: <https://www.rit.edu/~w-afrotc/>.

Prior Learning Experiences

Finger Lakes Community College acknowledges that learning takes place beyond the classroom. There are a number of ways in which students may have acquired college level learning, including advanced placement high school courses, pursuit of personal interests, travel, service in the armed forces, reading and independent study, professional development, or work experience. The following are examples of Prior Learning Experiences recognized by FLCC.

Credit by Examination: Several programs exist that design and administer examinations in college subject areas:

- Advanced Placement (AP)
- International Baccalaureate (IB)
- DSST (formerly DANTES Subject Standardized Tests)Excelsior College Examinations
- College Level Examination Program (CLEP)
- Other Recognized Licensures / Examinations

Examination credit is not counted toward residency requirements, is not used in calculating a student's grade point average, and is included in the maximum allowable transfer credit. FLCC utilizes the American Council on Education (ACE) recommendations for minimum scores, and number and type of credits awarded for these examination programs.

Students who have participated in these examinations must have an official examination grade report from the examination organization sent to the Student Records Office for evaluation. Credit is evaluated on a course-by-course basis by the Student Records Office in consultation with Academic Department Chairpersons.

Advanced Placement (AP)

The College Board-sponsored AP program offers secondary students an opportunity to study one or more college-level courses, and depending on examination results, to receive advanced placement and/or college credit. FLCC will consider transfer credit for those students who have completed AP exams and earned a score of 3 or higher.

International Baccalaureate (IB) Diploma Program

FLCC will consider transfer credit for those students who have completed HL (Higher Level) courses and earned a 4 or higher.

DSST

DSST exams are given in liberal arts, business and technology subject areas. FLCC is a DSST testing center. Cut-off scores vary by subject test, and are available from the Student Records Office.

Excelsior College Examinations

Excelsior College Examinations are offered in liberal arts, business and nursing subject areas. Registration is completed directly with Excelsior College in Albany. Exams are scheduled and administered at a Prometric Testing Center. Cut-off scores vary by subject test, and are available from the Student Records Office.

College Level Examination Program (CLEP)

CLEP exams are offered in liberal arts and business subject areas. Registration is completed through a CLEP testing center. Cut-off scores vary by subject test, and are available from the Student Records Office.

Other Recognized Licensures/Examinations

Other recognized licensures/examinations may be accepted for college credit for any course applicable to the student's degree program. Specific course credit for licensures/exams are recommended by the department and approved by the AVP for Instruction. A list of approved examinations/licensures for college credit will be kept on file by the Student Records Office. Students must submit an official record of successful completion from the testing/licensing agency to the Student Records Office. Student Records will apply the appropriate credit for approved licensures/exams and notify the student.

Course Challenge Examinations

Course Challenge Examinations may be offered for college credit for any course at the discretion of the individual department. The candidate may not re-take unsuccessfully completed FLCC challenge examinations for the same course. The cost of the examination will be a fee as established by the Board of Trustees. This fee is in addition to a student's regular tuition and fees. The student does not register for, or pay for, the number of credits associated with the course. The student obtains the Course Challenge Exam form from the One Stop or the academic department. Course Challenge Examination credit is not counted toward residency requirements, is not used in calculating a student's grade point average, and is included in the maximum allowable transfer credit.

Portfolio Review

Credit may be applied toward a degree program for knowledge gained through specific life experiences that result in learning outcomes equivalent to coursework at FLCC. Students will provide substantive evidence that course learning outcomes have been achieved by completing a portfolio. Students must be matriculated before portfolio review occurs. In addition, students will be responsible for a fee as established by the Board of Trustees. The number of credits that can be earned in this manner is limited to twelve. Portfolio review credit is not counted toward residency requirements, is not used in calculating a student's grade point average, and is included in the maximum allowable transfer credit. Students contact the appropriate Department Chairperson for Portfolio Proposal form.

Articulated Credit

Allows students to receive college credit for completing non-credit programs during high school or at a non-college credit granting institution. Credit will only be given for approved Articulation Agreements that define the course equivalencies. Articulation agreements are created through consultation between the academic departments and the Provost Office. Students must be matriculated before credit will be awarded. Articulated credit is not counted toward residency requirements, is not used in calculating a student's grade point average and is included in the maximum allowable transfer credit.

1. The student will obtain and complete a Credit Conversion Form from the AVP for Instruction.
2. The student will submit completed form and proof of completion of non-credit coursework to the Student Records Office for evaluation.
3. The Student Records Office will apply the appropriate credit and notify the student.
4. All documents will be retained by Student Records and stored in accordance with the record retention policy.

Independent Study at Finger Lakes Community College

Independent Study is available to students under circumstances including but not limited to:

- a) a course needed for graduation that is not available during the student's final semester
- b) a prerequisite course that is not available
- c) a student wishes to pursue a special research project under the guidance of a faculty member.

In all cases, an instructor must agree to teach an Independent Study course and the AVP for Instruction must approve the creation of the Independent Study course. Independent Study for existing courses must follow the department syllabus and course learning outcomes. Independent Study requests for a special research project must identify the student learning outcomes and the expected credit hours to be awarded. Independent Study courses carry an additional fee. Please refer to the Tuition and Fee Schedule. The credit hours earned from an Independent Study course will be included in the student's regular semester load and will not be treated differently for graduation requirements. An Independent Study may be initiated by either the student or the faculty/administration.

Guidelines for the Granting of a High School Equivalency Diploma on the Basis of Earned College Credit or by Taking the TASC (Test Assessing Secondary Completion) Examination

Persons without a high school diploma may receive a New York State Equivalency Diploma in two ways:

1. Successfully complete 24 credit hours as a candidate for a college level degree or certificate and maintain a Grade Point Average of 2.0 or better. To obtain a High School Equivalency Diploma, students must take courses in the following areas:
 - 6 credits English Language Arts
 - 3 credits Math
 - 3 credits Natural Science (excluding Nutritional Science)
 - 3 credits Social Science
 - 3 credits Humanities
 - 6 credits Pertaining to FLCC degree

Students interested in earning a High School Equivalency Diploma by successfully completing 24 hours of college credits should discuss their plans with a member of the AACTS staff, once approved into the program by the Admissions Office.

Once students have earned the prescribed 24 hours of college credit, the Academic Advising, Career and Transfer Services will assist

the student in completing the paperwork to the New York State Education Department form in order to apply for their High School Equivalency Diploma. Students not planning to send for the TASC must complete the prescribed courses to earn an Associate Degree from Finger Lakes Community College

2. Enroll in preparation courses for the TASC to receive a High School Equivalency Diploma. The classes diagnose skill areas to be worked on and guide the student through a process to learn the necessary material for the test. These classes are offered at no charge to the student. FLCC has 3 TASC Test Centers located on the Canandaigua, Geneva and Newark campuses. TASC tests are at one of these centers every month. The test schedule is posted on www.flcc.edu. Passing Regents scores can also be used for credit toward the TASC test/High School diploma.

To take the test, students must be at least 19 years of age, or 17 or 18 years of age and have been either out of school at least one year, or a member of a high school class which has graduated, or 16 years of age or older and were/are home schooled. Those under 19 years can also obtain verification of enrollment in college or the US Armed Forces in order to qualify to test. For information on any of the above information or when classes start, and for testing dates and locations, contact the Adult Basic Education office by calling 585.785.1431.

Tuition and Fees

Tuition and fees are payable at registration according to the payment schedule released by the College. The tuition figures and fees listed on this page and on the next page may be changed prior to the opening of the College academic year. The responsibility for payment of tuition and fees rests upon the student. The student's course schedule will be cancelled for the appropriate semester if the established due dates for payment are not met.

For additional information, please call the One Stop Center at 585.785.1000 or refer to WebAdvisor. For detailed information regarding course-specific fees, please see the Cost of Attending webpage at www.flcc.edu/costs/index.cfm.

Full-Time and Part-Time Students

A full-time student is one enrolled for 12 or more credit hours. A part-time student is one enrolled for less than 12 credit hours. A student enrolled for 12 or more credit hours at any time during the Fall or Spring Semester will be charged the full-time student rates.

Tuition (2021-2022)*

For Full-time Students (per semester):

New York State residents Non-Excelsior Recipient with Certificate of Residence (affidavit required)**	\$2,484.00
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New York State resident Excelsior Recipient with Certificate of Residence (affidavit required)**	\$2,184.00
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New York State residents Non-Excelsior Recipient without Certificate of Residence	\$4,414.00
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Out-of-state resident	\$2,919.00
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For Part-time Students (per credit hour):

New York State residents with Certificate of Residence (affidavit required)**	\$207.00
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New York State residents without Certificate of Residence	\$368.00
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Out-of-State residents	\$244.00
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High School Concurrent Enrollment Programs with Certificate of Residence (affidavit required)**	\$69.00
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High School Concurrent Enrollment Programs with no Certificate of Residence	\$123.00
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Fees (2020 - 2021)*

For Full-time Students (per semester, unless noted):

Athletic Fee (finances intercollegiate activities)	\$75.00
Auxiliary Services Fee (finances student credential, commencement regalia, and student health care provider)	\$26.00
Student Activities Fee (finances student activities, lectures, concerts, and student publications)	\$84.00
SUNY Distance Learning Course (per credit hour)	\$17.00
Technology Fee - finances periodic replacements of all student-used desktop computer systems, servers, and other related resources. (per credit hour up to 12 credits max)	\$16.00

For Part-time Students (per credit hour, unless noted):

Student Activities Part-Time Fee (for student activities, auxiliary services, and athletics)	\$7.00
SUNY Learning Network Course	\$16.50
Technology Fee	\$15.50
High School Concurrent Enrollment Programs Fee	\$5.00

Other Fees*

Challenge Examinations for Advanced Credit (per course) (affidavit required)**	\$207.00
Culinary Arts (per course)	\$150.00 - 258.00
EMT Fee (Critical Care Transport) (per course)	\$206.00
Independent Study Course Fee	\$105.00
Specialized Course/Lab Fees (maximum, per course)	\$5.00 - \$250.00
Late Payment Fee (per registration)	\$75.00
Liability-Malpractice Insurance annually (estimated) (per year/applicable to Nursing, Therapeutic Massage, and EMT students)	\$15.00
Returned Check Fee (per occurrence)	\$50.00
Transcript Fee (per transcript)	\$5.00
Wildland Fire Suppression Materials (in addition to the tuition) (one-time fee):	\$6.00
Music Fees (in addition to the tuition for applicable courses): Applied Music Fee (per course)	\$412.00
Music Recording Technology (per semester)	\$52.00
Nursing Assessment Testing & Remediation Fee (Pays for a testing and remediation program through Kaplan Testing. It will assist students to achieve success in nursing courses and on the	

national licensing examination - NCLEX-RN.)	\$300.00
Nursing Pre-Admission TEAS Test	\$129.00
Nursing ExamSoft license	\$34.00
Nursing Lab Supplies Fee (in addition to the tuition)	\$62.00
Physical Education Course Fees (in addition to the tuition):	\$35.00 - \$250.00
Diploma Replacement Fee (per replacement)	\$20.00

** Tuition and fees are subject to change without notice and pending approval of the Board of Trustees.*

*** Any student who has been a resident of New York State for one year or more is eligible to obtain a Certificate of Residence from his/her County Treasurer's Office.*

Course Drop and Withdrawal Procedures

Official Withdrawal from All Courses

If a student wishes to withdraw from all their in-progress courses at the college:

1. The student logs into WebAdvisor and selects "Complete Official Withdrawal from All Classes".
2. The student completes and submits the form, acknowledging all required notices. The student selects whether to proceed with the Withdrawal, or can request contact by either the Financial Aid or the Office of Academic Advising, Career & Transfer Services.
3. If the student selects proceed with the Withdrawal, the request is sent to Student Records for processing and will become effective as of the date it was submitted.
4. If the student requests contact from Financial Aid or Academic Advising, the requested office will reach out to the student to discuss any questions the student may have. Once contact has been made, if the student wishes to continue with the withdrawal, s/he will need to resubmit the form via WebAdvisor.
5. The instructors of record for the courses are notified by email of drops.

Dropping a Course

Official withdrawals are initiated by the student. Withdrawal from a course or courses before 20% of the scheduled meeting time has passed will result in no transcript record. Official withdraw from one or more courses after this point, without penalty to a student's grade point average, is permitted within the time frames detailed below, resulting in a W symbol being recorded.

If a student wishes to withdraw from one or more courses, but not all:

1. Official withdrawal is permitted on or before the Friday of the week the course has met 80% of its scheduled time.
2. The student will complete the appropriate form from or online process with the One Stop.
3. The student will complete the process and submit it to the One Stop for processing. At this point, the withdrawal becomes official.
4. The instructor of record for the course is notified by email

Petition for a Medical Withdrawal Grade

Students with a documented medical reason for having withdrawn from a course(s) may petition to have their grades changed to an "MW".

A grade change approval does not relieve students of any financial obligation incurred through attendance. In order to petition for a grade change to "MW", a student must:

- Submit (online) an Official Withdrawal from All Courses form (or an individual course drop form to the One Stop) by the withdrawal deadline.
- The student should select "Medical" when asking for a reason for withdrawing and answer the additional questions.
- Follow the directions securing their health care professional (physician, psychiatrist, mental health counselor, etc.) files the appropriate information. Within 30 days of the MW Withdrawal Petition form filing date, the Medical Documentation Request form must be returned in a sealed envelope from the health care provider to the AVP of Instruction. It is the student's responsibility to ensure the documentation is submitted within the specified time frame.

- For singular course drops, the student should contact the Associate Vice President of Institution with notification the drop is due to a medical situation.
- Upon receipt of the Medical Documentation Request form from the health care professional, the Medical Withdrawal Petition will be reviewed by the AVP of Instruction. Students are notified via email of the outcome within 21 days following the receipt of the medical documentation form from the health care provider.

Methods of Payment

- **Cash**
- **Check or Money Order:** Acceptable if made payable to Finger Lakes Community College. A \$50.00 charge will be assessed for all checks issued to the College and not paid upon presentation to the bank.
- **Credit Card/ACH:** The College will accept Discover, VISA, and MasterCard over the counter or on-line. Electronic check payments (ACH) are accepted on-line only. Service charges are applied to all on-line payments. A \$50.00 charge will be assessed for all returned online payments made to the College and not paid upon presentation to the bank.
- **Deferred Tuition Payment Plan:** The College has made arrangements with an external payment plan company to service students in financing a monthly payment plan for tuition and fees. Information regarding this plan may be obtained from the One Stop Center. The payment plan is available for the Fall, Spring and Summer semesters only.

Delinquent Accounts

Students with delinquent accounts with the College may be denied the privilege of registering for the next semester. Also their statement of grades and/or official transcripts will be withheld until their delinquent balance is paid in full at the Student Accounts Office. It is the College's policy to assign delinquent accounts to a collection agency. After proper notification, students who have an unpaid balance in their account for the semester may be assigned to a collection agency. **Students will be responsible for the outstanding balance, PLUS all late payment fees, collection agency fees in the range of 33.33% to 66.67%, court costs and fees, and attorney costs and fees.** Furthermore, the collection agency will notify all credit reporting agencies of the outstanding debt. It is, therefore, important and advantageous to pay account balances in full when they are due.

Sponsorship Deferrals

All students who expect their semester bill to be paid by a Sponsor must submit a valid written Sponsor Authorization, addressed to FLCC Student Accounts Office that provides the actual sponsored amount and the date a payment will be sent to FLCC-Student Accounts Office. A Sponsorship Agreement Form may be downloaded from: www.flcc.edu/studentaccounts.

Tuition Refund

Credit Courses – Fall and Spring Semesters

If tuition has been paid by cash, check or credit card, or financial aid has been accessed from the government to pay the account, you may be entitled to a refund if timely drop slips or withdrawal documentation is submitted to the One Stop Center at 585.785.1000. The date on which the One Stop Center receives the forms will be used to determine refunds. A verbal notice by a student to an instructor, advisor, or any FLCC staff member does not constitute a formal course withdrawal or drop. **Lack of attendance does not reduce tuition and fees; therefore, timely withdrawal or drop slips will ensure proper credit to your student account.**

To receive a 100% refund of already paid tuition and fees, the completed forms must be received by the One Stop Center as follows:

- For credit courses 15 weeks or more, one business day prior to the official semester start date.

The schedule for tuition refund for credit courses 15 weeks or more is as follows:

Approved drop/withdrawal one business day
prior to semester start date Tuition and fees 100%

- Approved drop/withdrawal during 1st week of semester Tuition only 75%
- Approved drop/withdrawal during 2nd week of semester Tuition only 50%
- Approved drop/withdrawal during 3rd week of semester Tuition only 25%
- Approved drop/withdrawal after 3rd week (20th day) of semester No Refund

For credit courses less than 15 weeks, one business day prior to the official start date of the classes.

The schedule for tuition refund for credit courses less than 15 weeks is as follows:

- The date on which the One Stop Center receives the Course Drop/Withdrawal forms will be used to determine refunds. To receive 100% REFUND of already paid tuition and fees, the completed forms must be received by the One Stop Center one business day prior to the first class meeting date.
- If you drop a class within seven calendar days from the start date of the class, you will be entitled to a 25% refund (of tuition only). There is NO REFUND granted for course drops after the seven calendar days from the start date of the class.

If courses are canceled by the College which changes your status from full- to part-time, the appropriate tuition and fees will be refunded. If a student changes from full to part-time status (11 or less credit hours/semester) after the semester has started, a refund will be issued according to the schedule for tuition refund.

Credit Courses – Winter Session and Summer Semesters

- The date on which the One Stop Center receives the Course Drop/Withdrawal forms will be used to determine refunds. To receive 100% REFUND of already paid tuition and fees, the completed forms must be received by the One Stop Center one business day prior to the first class meeting date.
- If you drop a class within seven calendar days from the start date of the class, you will be entitled to a 25% refund (of tuition only). There is NO REFUND granted for course drops after the seven calendar days from the start date of the class.

Non-Credit Courses

- Refunds will be processed for those students who officially cancel their registration and submit a drop slip to the One Stop Center one business day prior to the start date of classes. Please contact the Division of Professional Studies and Continuing Education (Telephone: 585.785.1660) one business day prior to the class start date if you wish to drop the course.

Disbursement of Title IV Funds and Other Aid

The receipt of Title IV funds and other aid by the Student Accounts Office (which may include Federal Unsubsidized Stafford Loan, Federal Subsidized Stafford Loan, Federal Parent (Plus) Loans, Federal Pell Grant, Federal SEOG, other Title IV Programs, and any scholarships or aid) will be applied to the student’s account. The student account charges may consist of tuition, fees (<http://www.flcc.edu/costs/index.cfm>), housing, bookstore, meals, and emergency loans. After the student account is paid in full, any excess and subsequent financial aid will be refunded when the funds are received.

Federal Financial Aid Award Program Participants

Federal regulations (the Higher Education Amendments of 1998, regulation 34 CFR part 668.22) require each school to have a written policy for the refund and repayment of Federal Title IV aid* received by students who withdraw during a term for which Title IV aid payment has been received. These policies are effective only if the student completely terminates enrollment (i.e., cancels his/her registration, withdraws, or is dismissed) or stops attending classes before completing more than 60% of the enrollment period.

Refund Policy

The amount of a refund of tuition and fees for students who withdraw will be calculated as outlined in the College Catalog under “Course Drop and Withdrawal Procedure” and “Tuition Refund – Credit Courses.”

Repayment Of Title IV Funds Policy

1. The amount of Title IV financial aid that a student must repay is determined by using the Federal Formula for Return of Title IV funds as specified in Section 484B of the Higher Education Act. The amount of Federal Title IV financial aid assistance that the student earns is determined on a pro rata basis. Once the student has completed more than 60% of the payment period, all financial aid assistance is considered to be earned.
 - Percent earned = Number of calendar days completed up to the withdrawal date** divided by the total calendar days in the payment period with an allowance for any scheduled breaks that are at least 5 days long.
 - Percent unearned = 100% minus percent earned
2. When a student has received Federal financial aid in excess of earned aid, the school returns the lesser of:
 - Institutional charges multiplied by the unearned percentage, or
 - Title IV Federal financial aid disbursed multiplied by the unearned percentage the student:
 - returns any remaining unearned aid not covered by the school.
 - repays any loan funds in accordance with the terms of the promissory note. (That is, scheduled payments to the holder of the loan over a period of time.)
 - returns any grant amount the student has to repay (considered a grant overpayment and arrangements must be made with the school or Department of Education to repay the funds).

Unearned Title IV Federal financial aid shall be repaid to the following programs in the following order:

1. Federal Unsubsidized Stafford Loan
 2. Federal Subsidized Stafford Loan
 3. Federal Parent (PLUS) Loans
 4. Federal Pell Grant
 5. Federal SEOG
 6. Other Title IV Programs
3. The student is billed for funds the College is required to repay. The Student Accounts Office bills the student, and any account that is not paid within 30 days is turned over to a collection agency.
 4. The tuition and fees, procedures, and policies listed above supersede those published previously and are subject to change at any time.

* Federal Title IV financial aid includes the Federal Pell Grant, Federal Supplemental Opportunity Grant (SEOG), Federal Stafford Loans (Unsubsidized and Subsidized), Federal Parent PLUS Loans, and other Title IV Programs.

** Withdrawal date is defined as the actual date the student begins the institution's withdrawal process, the student's last date of academic-related activity, or the midpoint of the payment period for a student who leaves without notifying the institution.

Property Damage

Although there is no deposit required to cover property damage, students are held responsible for any damages incurred and shall be assessed accordingly.

Certificate of Residence

This document is necessary for each year that a student attends a community college in New York State. A Certificate of Residence must be obtained from the student's county (or counties) of residence. One must have been a resident of New York State for one full year or more in order to be eligible to obtain this Certificate from their County Treasurer's Office. The Certificate must be dated no earlier than 60 days prior to the start of classes and no later than 30 days after the start of classes. If the student moves from one county to another during the academic year, before registering for the next semester, a new Certificate of Residence must be obtained which indicates in which counties the student resided for the previous six month period. Some counties require an application form from the College; please check with the One Stop Center.

The One Stop Center will process and notarize Ontario County residents' certificates. Identification showing the student's current address and signature on it must be brought to the office. Note: living in Ontario County to attend college does not constitute permanent residency. Failure to submit an updated form may result in out-of-county/state rates used on an account.

Transcripts

FLCC has partnered with Parchment Inc. to provide transcript ordering services and electronic transcripts. Students may request a copy of their permanent record of academic work by visiting <http://www.flcc.edu/transcripts>, through WebAdvisor, or by visiting the One Stop Center. There is no fee for an unofficial transcript. A fee of \$5.00 is charged for each official transcript. Transcripts will not be sent for anyone with an outstanding financial obligation to the College.

SUNY Cross-Registration Agreement

Students must be a matriculated undergraduate, and attending full or part-time at their home institution. Students are limited to six credits of undergraduate cross-registered coursework per fall, spring, winter, or summer semester and the cross-registered courses must be applicable toward degree or certificate requirements. Students cross-registering at a community college are required to provide a certificate of residence to the visiting institution. Students registering through a SUNY Cross-Registration agreement are not charged tuition at the host institution, but may be liable for course-related fees.

FLCC students interested in cross-registering at another SUNY institution must meet with their academic advisor and select a course that can be used toward degree or certificate completion. Students must complete the online SUNY Cross-Registration Request at <https://www.suny.edu/crossregister> (use your WebAdvisor login and password), and wait for emails from the college regarding approvals to register. FLCC students cross-registering for courses at other colleges must stay within overload and probation credit hour limits. Credits completed through a Cross-Registration agreement with a C- or above will be posted as transfer credit to students' academic records.

Students from SUNY four-year institutions and other community colleges may cross-register for courses at Finger Lakes Community College on a space-available basis. Cross-Registration requests must be received by the end of the add period for the semester (typically the second Friday of the semester); requests received after this date will not be honored. Students must contact their home institution for pertinent guidelines and to obtain login instructions to submit a SUNY Cross-Registration request. Visiting students are responsible for all course-related fees, and must submit a valid certificate of residence at the time of registration. A copy of your FLCC grades will automatically be sent to your home institution at the close of the semester.

RAC Cross Registration/Inter-Institutional Registration

Full-time matriculated students at Finger Lakes Community College are entitled to register without additional tuition in courses offered by any member of the Rochester Area Colleges, Inc. (RAC) on a space-available basis. Member colleges include: Alfred University, Colgate-Rochester/ Bexley/Crozier, SUNY College of Technology at Alfred, Empire State College, Keuka, Monroe Community College, Nazareth College, Roberts Wesleyan, Rochester Institute of Technology, St. John Fisher, SUNY Geneseo, and the University of Rochester.

The following limitations apply to the cross registration:

1. Students must be enrolled at their home school for 12 or more credits.
2. The course is not being offered at their home school during the semester, and it is applicable to the student's degree program. All necessary prerequisites for the course must be met.
3. The course must be taken in the Spring or Fall Semester. The cross registration policy does not apply to Winter Session or Summer courses.
4. The student must receive approval from the Registrar, as indicated on the form.
5. Permission must be received from the College where the course is offered. The student is responsible for any fees assessed by the College where the course is being taken.

Cross registration forms are available at the One Stop Center. Any full-time visiting student from participating Rochester Area Colleges, who has approval from their home school to register for Finger Lakes Community College courses, will have the tuition waived. Fees in addition to tuition are not waived for any student.

Overload Policy

Finger Lakes Community College students may register for a maximum of 19 credit hours during the fall/spring semester. During summer and winter sessions a student may register for a maximum number of simultaneous credits based on the following chart:

<u>Term Length</u>	<u>Maximum Credit Hours</u>
6 weeks	8
5 weeks	7
4 weeks	5
3 weeks	4

A student who is not on academic probation or who has not been academically dismissed may complete an overload petition to register for credit hours that exceed the limits noted above.

Petition forms are available in the One Stop Center. The form should be completed and signed by the student and approved by the student's advisor and the Associate Vice President of Instruction. Upon approval, students should present their overload form to the One Stop Center for processing. Overload petitions will not be granted to first-time college students except under extenuating circumstances.

Course Audit

Auditing a course allows a student to take a course while receiving neither a grade nor credit. A student who audits a course does so for the purposes of self-enrichment and academic exploration. Students register to audit a course through the established registration procedures, only upon the approval of the instructor of record, and may change status from "auditing" to "registered for credit" or from "registered for credit" to "auditing" only before the day transcribing withdrawals would occur. The auditing student will be responsible for all tuition and fees for the course (except senior citizen auditors), supplying the college with an updated Certificate of Residence (except senior citizen auditors) and for meeting the college Immunization requirements (as required by NYS Public Health Law 2165). In all cases, the instructor of record is encouraged to discuss with the potential auditor expectations regarding the level of participation of an auditor, responsibilities of the instructor to the auditor (i.e., grading of and assistance with coursework), and specific limitations, if any, on class participation.

Senior Citizen Auditors: persons who have reached the age of 60 are permitted to audit courses, per New York State legislation, "without tuition, examination, grading or credit," on a space-available basis. Senior citizen auditor registration will begin the first day the course section meets, and requires the approval of the instructor of record.

Senior Citizens

New York State legislation states that community colleges “may permit persons who have reached 60 years of age or over to audit courses given therein without tuition, examination, grading or credit therefore upon a space available basis.”

Finger Lakes Community College welcomes senior citizens on a space available basis as determined at the close of normal registration. This auditing privilege is restricted to courses that are offered for college credit. Course materials or supplies needed for class, not covered by normal tuition, will be the responsibility of the student.

Courses must have the required minimum of paying registrants (exclusive of senior citizen audits) in determining whether course registrations meet the College’s minimum enrollment requirement. Contact the One Stop Center for senior citizen audit registration procedure.

Financial Aid

The goal of the Financial Aid Office of Finger Lakes Community College is to promote equal access to education by awarding and assisting students in the location of necessary funds to meet educational expenses based on the student's long-term educational objectives and complete financial situation.

A detailed explanation of the available financial aid programs is accessible online at www.flcc.edu/aid.

How to Apply

Students wishing to be considered for financial assistance must file a Free Application for Federal Student Aid (FAFSA), and a NYS Aid Payment application. The FAFSA should be completed as soon after October 1 as possible. Go to <https://flcc.edu/offices/financial-aid/how-to.cfm> to apply for financial aid.

Priority filing deadline (for SEOG, work study and scholarships) is March 1.

Recommended submission date to ensure timely processing for fall is May 1. Recommended submission date for spring is November 1.

Financial Assistance Available to Students

Scholarships

There are scholarships administered through the Finger Lakes Community College Foundation, Inc. For a complete listing of these scholarships, visit <https://give.flcc.edu/pages/scholarships>.

Grants: No Obligation to Repay

1. New York State Excelsior Scholarship-file FAFSA and NYS TAP Application and NYS Excelsior Scholarship application. Applications are available during dates set by NYS Higher Education Services Corporation (HESC). Typical dates are in May through August for the fall semester and November through January for the spring semester.
2. New York State Tuition Assistance Program (TAP) – file FAFSA and NYS Aid Payment application, (NYS Regents Child of Veteran Scholarship, and Child of Deceased Police Officer-Firefighter Award must file special application).
3. Federal Pell Grant – file FAFSA
4. Federal Supplemental Educational Opportunity Grant (SEOG) – file FAFSA
5. Educational Opportunity Grant (EOP) – file FAFSA
6. Veterans' Benefits
7. Vocational Rehabilitation Funds
8. New York State Aid for Part-time Study (APTS) – file APTS application
9. New York State Part-Time TAP – file FAFSA and NYS Aid Payment application
10. New York State Part Time Scholarship-file FAFSA and NYS Aid Payment application.

Loans: Repayment begins six months after a student drops below 6 credit hours, graduates, or stops attending.

1. Federal Direct Stafford Loan – file FAFSA, Master Promissory Note and Entrance Interview.
2. Federal Direct PLUS Loan – file FAFSA, Master Promissory Note, and PLUS Supplemental Form.

Terms and Expected Schedules for Repayment

The student must comply with terms stated in the Promissory Note. Federal Stafford Loan repayment schedules are established by the servicer. The student should contact the U.S. Department of Education at www.studentaid.gov or its servicer for further details.

Work: Part-time Employment on Campus

1. Federal Work Study – file FAFSA
2. Student Aid Positions – apply to individual departments
3. Tutor Positions – apply to Academic Success and Access Programs

Eligibility Requirements

1. Student must be a citizen of the United States or an eligible non-citizen.
2. Student must be matriculated in an approved program.
3. Student must be a New York State resident (EOP, APTS, Part-Time TAP and TAP and Part Time Scholarship and Excelsior Scholarship only).
4. Student must maintain good academic standing. See the section labels “Academic Standards for Financial Aid”
5. Student may not be in default on a previous loan, or owe a repayment on an over-award.
6. Male students must be registered with Selective Service (you must register between the ages of 18 and 25);
7. Sign the certification statement on the *Free Application for Federal Student Aid* (FAFSA[®]) form stating that
 - you are not in default on a federal student loan,
 - you do not owe money on a federal student grant, and
 - you will use federal student aid only for educational purposes; and
8. show you’re qualified to obtain a college or career school education by
 - having a high school diploma or a recognized equivalent such as a General Educational Development (GED) certificate;
 - completing a high school education in a homeschool setting approved under state law (or—if state law does not require a homeschooled student to obtain a completion credential—completing a high school education in a homeschool setting that qualifies as an exemption from compulsory attendance requirements under state law); or
 - enrolling in an eligible career pathway program and meeting one of the "ability-to-benefit" alternatives

Payments of Awards

All financial aid, except Federal Work Study, may be used to credit the student’s tuition bill. The amount of aid in excess of that bill will be disbursed to the student during each semester that he/she is enrolled. Disbursements normally begin six weeks into the semester.

Estimated 2021–2022 Cost of Attendance for Full-Time Students

(Indirect costs will vary depending on the individual student’s wants and needs)

COMMUTER (lives at home)

Tuition and Fees	\$	* 5175
Books and Supplies	\$	1,000
Transportation	\$	2,000
Home Maintenance	\$	**3,100
Personal	\$	1,300
TOTAL	\$	12,575

STUDENTS LIVING IN THE SUITES AT LAKER LANDING

Tuition and Fees	\$	*5, 175
Books and Supplies	\$	1,000
Transportation	\$	1200
Rent and Food	\$	10,513
Personal	\$	1,800
TOTAL	\$	19,688

STUDENTS LIVING OFF-CAMPUS

Tuition and Fees	\$	*5,175
Books and Supplies		
Transportation	\$	1000
Rent and Food	\$	2,000
Personal	\$	9,500
TOTAL	\$	19,77519,688

- * *Tuition and fees reflect estimated 2020-2021 costs and are subject to increase at any time by the Board of Trustees.*
- ** *Consideration is given for expenses incurred by parents for maintenance costs for students living at home.*

Part-Time Students

All students are packaged as full time students, and their cost of attendance and financial aid awards are updated based on actual credits, after the three week census date.

Veterans' Benefits

Veterans should be aware that the Veterans' Administration provides assistance for eligible veterans seeking further education. Additional information on Veterans' Benefits may be obtained by contacting either the Veterans' Service Agency Advisor or the Financial Aid Office at the College.

In accordance with Title 38 US Code 3679 subsection (e), this school adopts the following additional provisions for any students 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 nor delay the student's enrollment;
- Assess a late penalty fee to the student due to the delayed disbursement funding from VA under chapter 31 or 33;
- Require the student to secure alternative or additional funding;
- 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 may be required to:

- Produce the Certificate of Eligibility by the first day of class;
- Provide written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other institutional policies.

Finger Lakes Community College Foundation, Inc.

The Finger Lakes Community College Foundation is a not-for-profit corporation to cultivate relationships and partnerships, solicit, receive and manage private gifts and bequests, engage alumni, and own and maintain properties to sustain the standard of excellence at FLCC.

The Finger Lakes Community College Foundation assists the College by supplementing, promoting, advancing and enriching the College's creation of innovative programs and to support the success of students, with the construction or renovation of state-of-the-art learning environments, the perpetuation of a robust scholarship and awards program that promotes access and completion, and professional development of the faculty and staff. Many named scholarships have been established by individuals, businesses, or community organizations to honor the memory of individuals who were connected with the College and its mission.

The Finger Lakes Community College Scholarship Program

The Finger Lakes Community College Foundation Scholarship Program has two goals:

- to assist incoming students who have demonstrated academic excellence in high school, or who are returning to college as non-traditional age adult students, and
- to assist returning students who have demonstrated the ability to achieve success at Finger Lakes Community College.

For the full list of scholarships with information on eligibility and how to apply, visit give.flcc.edu

Statements of General Policies and Procedures

Cultural Diversity

Finger Lakes Community College is committed to cultural diversity in its student body and staff. It also seeks to have an environment that promotes and supports differences of opinions and views. To this end, the curriculum and co-curricular activities are encouraged to reflect a variety of perspectives that foster cultural diversity.

At Finger Lakes Community College, we strive to create a welcoming, equitable community where differences are valued and respected. Diversity is strength—and nowhere is that more evident than in higher education. As an institution of higher education, we know that learning is enhanced when students, faculty, and staff interact with people whose identities, worldviews, and experiences are diverse in nature. At the same time, we recognize the long and painful history of exclusion and oppression that has brought us to the present day. As a campus community we know that we cannot enjoy the benefits of diversity without insuring equitable and inclusive treatment for all. In particular, this means that Finger Lakes Community College must enact policies that reach out to those who have been silenced and marginalized. In all, Finger Lakes Community College is committed to diversity, equity, and inclusion in its student body and staff. It also seeks to have an environment that promotes and supports differences of opinions and views. To this end, the curriculum and co-curricular activities are encouraged to reflect a variety of perspectives that foster cultural diversity. You may find the FLCC DEI plan here: www.flcc.edu/pdf/diversity/FLCC-DEI-Plan.pdf

Non-Discrimination Policy

Policy Statement:

Finger Lakes Community College does not discriminate against any employee, applicant for employment, intern, whether paid or unpaid, contractor, student, or applicant for admission based on an individual's race, color, national origin, religion, creed, age, disability, sex, gender identification, gender expression, sexual orientation, self-identified or perceived sex, the status of being transgender, familial status, pregnancy, predisposing genetic characteristics, military status, veteran status, domestic violence victim status, criminal conviction or any other category protected by law. The College adheres to all federal and state laws prohibiting discrimination and sexual harassment in public institutions of higher education.

The College prohibits conduct by any employee or a student that disrupts or interferes with another's work performance or educational experience, or that creates an intimidating, offensive, or hostile work or educational environment due to discrimination based on protected status or sexual harassment. In keeping with this goal, the College is committed to educate employees in the recognition and prevention of workplace and educational discrimination and sexual harassment. Improper conduct may violate the College's policy, when it is more serious than petty slights or trivial inconveniences.

Applicability of Policy:

This policy applies to all employees, applicants for employment, interns, whether paid or unpaid, contractors and persons conducting business with the College, regardless of immigration status, students and applicants for admission. Students who are only employed with the College as student aides or work study, or who are interns inside and outside the College as a part of their course study, will be categorized as students.

*There will be instances of sexual harassment as defined by Title IX and its implementing regulations when a report of sexual harassment will be deferred to the College's Title IX Grievance Policy. The final rule on Title IX effective August 14, 2020 determined the Title IX Grievance Policy should be applied when the sex based conduct reported meets the threshold of severe AND pervasive AND objectively offense. Quid pro quo harassment and Clery Act / VAWA offenses which also may fall under the Title IX Grievance Policy are NOT evaluated for severity, pervasiveness, offensiveness, or denial of equal educational access, because these types of misconduct are sufficiently serious to deprive a person of equal educational access. Jurisdiction for Title IX is to address conduct that takes place in a school's education program or activity, for which the conduct occurred in the United States and for a current student or employee. The Non-Discrimination and Sexual Harassment Response and Prevention Policy includes expanded jurisdiction and a different threshold to establish sexual harassment, and all forms of harassment or discrimination.

Inquiries about and reports regarding this policy and procedure or the College's Title IX Grievance Policy may be made internally

to:

Michelle Polowchak, Chief Human Resources Officer
Civil Rights Compliance Officer (CRCO), Title IX Coordinator
ADA / 504 Coordinator
Room 1350, 585.785.1451
Michelle.Polowchak@flcc.edu

Catherine (Kate) Burns, Burns, Assistant Director of Employee and Labor Relations
Deputy Title IX Coordinator
Room 1341, 585.785.1466
Catherine.Burns@flcc.edu

Sarah Whiffen, Associate Vice President of Student Affairs
Deputy Title IX Coordinator
Room 2153, 585.785.1284
Sarah.Whiffen@flcc.edu

Sara Iszard, Director of Community Standards and Counseling
Title IX Investigator
Room 1155, 585.785.1554
Sara.Iszard@flcc.edu

I. Accommodation of Disabilities

Finger Lakes Community College is committed to full compliance with the Americans With Disabilities Act of 1990, the ADA Amendments Act of 2008 (ADAAA) and Section 504 of the Rehabilitation Act of 1973, which prohibit discrimination against qualified persons with disabilities, as well as other federal and state laws pertaining to individuals with disabilities. Under the ADA and ADAAA, a person has a disability if they have a physical or mental impairment that substantially limits a major life activity. The ADAAA also protects individuals who have a record of a substantially limiting impairment or who are regarded as disabled by the institution whether qualified or not. A substantial impairment is one that significantly limits or restricts a major life activity such as hearing, seeing, speaking, breathing, performing manual tasks, walking or caring for oneself. This includes major bodily functions, including, but not limited to, functions of the immune system; normal cell growth; and digestive, bowel, bladder, neurological, brain, respiratory, circulatory, endocrine, and reproductive functions. The Human Resources Officer has been designated as the ADA/504 Coordinator responsible for coordinating efforts to comply with these disability laws, including investigation of any allegation of noncompliance.

Students with Disabilities

Finger Lakes Community College is committed to providing qualified students with disabilities with reasonable accommodations and support needed to ensure equal access to the academic programs and activities of the College.

All accommodations are made on a case-by-case basis. A student requesting any accommodation should first contact the Disability Services Coordinator Office that coordinates services for students with disabilities. The Disability Services Coordinator reviews documentation provided by the student and, in consultation with the student, via an interactive process, determines which academic adjustments/accommodations are appropriate to the student's particular needs and academic programs.

Employees with Disabilities

The College does not discriminate in any employment against qualified individuals with disabilities who, with or without reasonable accommodations, can perform the essential functions for the position that such individual holds or desires. The College will provide a reasonable accommodation to a qualified individual with a disability to help that individual perform the essential functions of the position. The College will also engage in interactive discussions with individuals with disabilities, upon request or upon notice of the potential need for an accommodation. Accommodation requests for employment shall be initiated or coordinated with the Office of Human Resources. The College will comply with all applicable laws which prohibit disability discrimination and provide for reasonable accommodation obligations.

Religious Beliefs

1. No person shall be expelled from or be refused admission as a student to an institution of higher education for the reason that he or she is unable, because of his or her religious beliefs, to attend classes or to participate in any examination, study or work requirements on a particular day or days.
2. Any student in an institution of higher education who is unable, because of his or her 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. Students should provide this information to their faculty during the first week of the term.
3. 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 his or her religious beliefs, an equivalent opportunity to make up any examination, study, or work requirements which he or she may have 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.
4. If classes, examinations, study, or work requirements are held on Friday after four o'clock post meridian or on Saturday, similar or make-up 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.
5. 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, because of availing himself or herself of the provisions of this section.
6. Any student, who is aggrieved by the alleged failure of any faculty or administration 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 his or her rights under this section.
 - 6a) A copy of this section shall be published by each institution of higher education in the catalog of such institution containing the listings of available courses.
7. 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 the Board of Higher Education of the City of New York or any community college.

Family Educational Rights and Privacy Act (FERPA)

Finger Lakes Community College ensures student rights as identified in the Family Educational Rights and Privacy Act (FERPA). FLCC students have the right to:

- inspect and review his/her education records within 45 days of the day the College receives a request for access.

The student should submit to the Registrar a written request that identifies the record(s) they wish to inspect. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Registrar, the Registrar shall advise the student of the correct college official to whom the request should be addressed.

If the College decides not to amend the record as requested by the student, the College will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorized disclosure without consent.
- request the amendment of his/her education records that he/she believes are inaccurate or misleading. Students may ask the College to amend a record that they believe is inaccurate or misleading. They should write the College official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.
- consent to disclosures of personally identifiable information contained in his/her education records, except to the extent that FERPA authorized disclosure without consent
- file a complaint with the U.S. Department of Education concerning alleged failures by Finger Lakes Community College to comply with the requirements of FERPA

One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position (including Campus Police personnel and health staff); a person or company with whom the College has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks; and SUNY System Administration. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

The College designates the following as directory information and will release it without prior written consent, unless the student has informed the Registrar in writing that he/she does not want his/her directory information released. The directory information includes: name, address, telephone number, photograph or likeness, date and place of birth, college-assigned email address, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance at FLCC, degrees, certificates and awards received, eligibility for honor societies, most recent previous educational agency or institution attended by the student, Dean's List qualification

Solomon Act – Military Access to Education Records:

The Solomon Amendment (10 U.S.C. §982:32 C.F.R. 216.65 F.R. 2056) is not a part of FERPA, but it allows military organizations access to information ordinarily restricted under FERPA for the purpose of military recruiting. Specifically, the Solomon Amendment permits the Department of Defense entities to physically access institutional facilities to recruit students, and to obtain students' names, addresses, phone numbers, age, class, and degree program once every term. The Solomon Amendment only applies to enrolled students over age 17.

Students have the right to restrict disclosure/release of directory information to third-parties. While students are attending FLCC, they must file the notification to withhold directory information annually. Forms for this purpose are available from the Registrar's Office or the One Stop Center.

Filing a Complaint

Students have the right to file a complaint with the U.S. Department of Education concerning alleged failures by Finger Lakes Community College to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Educational Rights & Privacy Office Department of Education

330 Independence Avenue, S.W. Washington, DC 20201

Drug-Free Workplace/ Drug-Free Campus Policy

Finger Lakes Community College is committed to the maintenance of a drug free work environment. As an educational institution, the College endeavors to promote healthy lifestyles for its staff and students and has established policies concerning alcohol and tobacco use on its premises. In keeping with this goal, a *Wellness is Now* committee was established to address issues of substance use through a strategic wellness plan. The College clearly does not condone the unlawful use, possession, distribution, or manufacture of controlled substances or the abuse of alcohol on its premises.

This policy, as outlined in the Student Handbook, describes the philosophy of Finger Lakes Community College and the program elements the College will use to meet our commitment.

Students may obtain a copy of the Student Code of Conduct from a variety of sources, including the Student Life Office, and at the FLCC Geneva Campus Center, the Newark Campus Center, and the Victor Campus Center. .

<http://www.flcc.edu/pdf/judicialaffairs/StudentCodeofConduct.pdf>

Amnesty for Student Reporting

The College community encourages the reporting of misconduct and crimes by reporting parties and witnesses. Sometimes, students who are reporting parties or witnesses are hesitant to report to College officials or participate in resolution processes because they fear that they themselves may be accused of policy violations, such as underage drinking at the time of the incident. It is in the best interests of this community that reporting parties choose to report to College officials, and that witnesses come forward to share what they know. To encourage reporting, the Student Code of Conduct and the Sexual Misconduct and Non-Discrimination Policy offers reporting student parties and witnesses amnesty from minor policy violations related to the incident.

Smoking Policy

Finger Lakes Community College shall be designated as a smoke-free and tobacco-free facility and no person shall carry a lighted cigar, cigarette, pipe, any form of smoking object/device *including operating e-cigarettes and vaping devices* or engage in active/passive tobacco use in any College building, College vehicle, off-campus College facility or on any outdoor property controlled by the College within a distance of 500 feet from buildings owned and/or controlled by the College. The current policy is in place until August 31, 2021 and is in the process of being reviewed.

Children on Campus

The College is an educational enterprise that is focused on adults and generally does not have an environment that is conducive to the presence of children. Students or prospective students should make appropriate child care arrangements for their children when conducting business at a Finger Lakes Community College site. Bringing children to registrations or classes is strongly discouraged.

The following guidelines apply when it is necessary for children to accompany their parents to the College premises:

1. Children on campus are to remain in the direct supervision of a parent/guardian. Any unsupervised children may be detained by a College representative. In that event, the child's parent/guardian will be contacted immediately, and the Campus Police shall be notified.
2. Children shall not be allowed to disrupt the learning environment. The parent/guardian and child may be asked to leave the classroom or service office at the discretion of the faculty or staff member.
3. The College may interpret a child's disruptive behavior as the parent/guardian student's violation of the Student Code of Conduct.

The College recognizes that many of our students do have childcare needs. In order to assist students in providing appropriate care for their children while coming to the College, a Child Care Center has been established at the main campus. For those students who are unable to utilize the Center, and for students at the Geneva Campus Center, the Victor Campus Center, or the Newark Campus Center, the College provides referral information on other childcare centers.

Student Code of Conduct, Sexual Misconduct and Discrimination Policy, and Academic Grievance Policy

As explained in its Mission Statement, Finger Lakes Community College serves as a dynamic learning resource, empowering our students to succeed and fueling the cultural and economic vitality of the region.

The Student Code of Conduct, Title IX, Non-Discrimination and Sexual Harassment Response and Prevention Policy, and Academic Grievance Policies work together and are intended to foster and protect the free and open exchange of ideas. These policies and associated procedures apply to students and student organizations of Finger Lakes Community College. Students are subject to the policies during academic terms for which they are enrolled, during breaks between terms, during College holidays and vacations, and during periods of suspension. The policies and procedures enumerates the rights and responsibilities of students, behaviors prohibited on and/or off campus, possible sanctions, and the procedures adopted by the college for addressing student conduct.

The policies and procedures embrace several important values: the rights of free speech and peaceable assembly; the freedom of inquiry and the right to make constructive criticism; the central importance of honesty to this community; and the desire that all students participate on campus in an environment that respects differences of culture, gender, religion, race, or ability.

Students who have questions about these policies and procedures should contact the Director of Community Standards and Counseling at 585.785.1211. The policies may be viewed on the Community Standards & Counseling website..

College Closing/ Cancellation of Classes

In the event of severe and hazardous weather and/or road conditions, or an emergency situation, Finger Lakes Community College may close entirely or cancel classes for a given period of time. The cancellation of day classes does not automatically impact evening classes and/or campus centers and sites. Area television and radio stations will announce these cancellations. The College will also utilize its alert system to notify of school closings. Closings and cancellations will be posted on the FLCC website home page, www.flcc.edu.

Annual Security and Fire Safety Reports

As required by the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (also referred to as the Clery Act), the FLCC Campus Police Department makes its Annual Security Report and FLCC's EHS Departmental Annual Fire Safety Report available to the public free of charge. These reports contain crime and fire safety statistics, and related policies. This information is reported to the United States Department of Education annually. Copies of these reports may be obtained by contacting the College's Campus Police Department at 585.785.1900 or by viewing the FLCC Campus Police webpage at <https://www.flcc.edu/offices/safety/>. More information about safety and security on campus can be found at the United States Department of Education's website at <https://ope.ed.gov/campussafety/#/>.

Parking and Traffic Regulations

Finger Lakes Community College offers the public ample free parking in our main A and G parking lots and a permit is not required to park in these lots. D and B lots are reserved for permit parking. These areas are clearly marked with signs indicating that parking is by permit only. Permits are issued by the Campus Police Department. Handicap parking, with the display of the proper permits, is available in parking lots B, D, and E. A New York State handicap permit, issued by any municipality, is valid for handicap parking areas on campus. Temporary college handicap permits are available at the Campus Police Department. Parking is prohibited in the C Lot Loading Dock area. Call Campus Police at 585.785.1900 or stop by room 2202 if you have any questions about parking on campus. Overnight parking is prohibited unless approved by the Campus Police Department.

Students are expected to be familiar with parking regulations on campus. Information about parking on campus is available at the Campus Police Department and may be viewed online [at https://www.flcc.edu/offices/safety/](https://www.flcc.edu/offices/safety/).

Violations of parking regulations will result in a parking ticket being issued, and may result in the vehicle being towed at the owner's expense without prior notification. Failure to pay parking fines can result in the withholding of grades and transcripts, and/or the loss of privilege to park or drive on campus grounds. Overnight parking is prohibited without prior approval.

Student Affairs

The following offices report to the Office of the Associate Vice President of Student Affairs:

- Academic Advising, Career and Transfer Services {AACTS}
- Student Life
- Student Health Services
- Community Standards and Counseling
- Academic Success and Access Programs {ASAP}

Vision Statement

The Student Affairs unit seeks to promote student development and the attainment of student goals.

Mission Statement

Our mission is to support the vision of the College by promoting a community that fosters an environment of learning in and out of the classroom, developing co-curricular programs and services that inspire and motivate students to grow and become productive world citizens, and by advocating for student success and personal achievement.

Community Standards and Counseling

The Office of Community Standards and Counseling Office is committed to supporting and educating students to empower them to meet their educational goals.

Community Standards

FLCC promotes a safe and positive learning environment in and out of the classroom. All students attending the College accept individual responsibilities and are held accountable through FLCC's Student Code of Conduct Policy and Sexual Misconduct & Non-Discrimination Policy.

Counseling Services

Many students seek help while in college. Counselors are available to serve as confidential skilled listeners who provide guidance to help students on a short term basis to clarify issues, resolve conflicts, and learn way of coping. A number of referral listings for local agencies and organizations can be found in the Community Standards and Counseling Office All services are free of charge to students.

Student Emergency Services

For students who find themselves in urgent situations, assistance is available. FLCC has a food cupboard, assistance with transportation expenses and for students experiencing a financial emergency, a student emergency loan fund that is sponsored by the FLCC Foundation. If you are experiencing a financial emergency, please come to the Office of Community Standards and Counseling.

Academic Advising, Career and Transfer Services

Academic Advising, Career & Transfer Services (AACTS) provides a caring holistic approach to empowering students to discover and achieve their academic, transfer and career goals. Specific services include following:

Academic Advisement

Academic Advisement services are available to all students at Finger Lakes Community College. Full and part time matriculated students are assigned a faculty advisor and a professional academic advisor who will assist them with course selection, academic planning, goal setting and questions related to their program of study. If a student is a member of a specialized program or cohort (e.g., EOP, Athletics, Online Learning, Campus Centers, Academic Probation or any other population and/or programs as determined by the College), s/he may have

additional staff/faculty members providing support.

- Students are ultimately responsible for ensuring that all graduation requirements are met.
- Students who wish to change their degree program are encouraged to meet with a staff member in Academic Advising, Career and Transfer Services to review degree requirements. The staff can also help students who wish to change their faculty advisor.

Career Services

As part of Academic Advising, Career and Transfer Services, Career Service is available to all students, alumni & community members. Making career and educational choices requires planning. Career Service advisors can help students, alumni and community members with career decision-making processes through assessments, exploration, and guidance. When you are ready to enter the workforce, we can assist with preparation for the job search including resumes, cover letters, job search, and interviewing. Our Online resources provide assistance 24/7 and include career assessments, resources, and tools to make your job search easier. We also provide programing and job fairs open to all. All of our resources can be found at: <https://www.flcc.edu/career>

Transfer Services

Students who are interested in transferring to a four-year college or university are encouraged to use the resources available in Academic Advising, Career and Transfer Services to select an institution that matches their career interest and is appropriate for their educational goals and abilities. Additionally, while attending Finger Lakes Community College, students are encouraged to plan their course selection carefully by working with their faculty advisor as well as advisors from the prospective four-year institution to meet Finger Lakes Community College's graduation requirements while satisfying the requirement for transfer of the four-year institution.

Academic Advising, Career and Transfer Services offers students comprehensive resources needed to completely investigate transfer options and identify the four-year institutions that suit their educational goals. The Transfer Services website www.flcc.edu/transfer has numerous resources that aid in transfer planning, articulation agreements, and joint admissions information, Steps to a Successful Transfer, and links to a variety of transfer resources.

The transfer professionals in Academic Advising, Career and Transfer Services are eager to assist students with the transfer process. It is recommended that students interested in participating in transfer articulation agreements or transferring to a four-year college explore their options as early as possible, but no later than their third semester at Finger Lakes Community College.

Educational Opportunity Program (EOP)

The Educational Opportunity Program, known as EOP, is an academic and financial support program of the State University of New York system. The program is designed to put a college education within the reach of citizens of New York State who are educationally underprepared and economically disadvantaged.

“Educationally underprepared” has many meanings, but generally refers to those who have achieved poorly in previous school experiences as evidenced by high school grades or standardized test scores (SAT, ACT, etc.) or a lack of pre-requisite academic course work required for their chosen degree. Students eligible for admission to EOP may be “underprepared,” but demonstrate in other ways a potential for successfully completing a college program.

Income guidelines have been established by the State to determine economic eligibility for first-time EOP applicants. Students applying for the program must document historical and present “economic disadvantage” to be considered for admission.

Transferring and returning students who were enrolled in a similar post-secondary opportunity program such as EOP, HEOP, SEEK, or College Discovery at their previous institutions may be eligible for EOP at Finger Lakes Community College. Verification of previous status is required.

Students enrolled in EOP are offered tutoring and academic advising as well as career, educational, and personal development services. Students may also be eligible for additional financial aid to supplement their college expenses through an EOP grant. In addition, a pre-freshman summer orientation program is offered to students enrolling during the Fall Semester to acquaint them with the college environment.

For additional information, visit the website at www.flcc.edu/eop.

Crisis Response Team

The Crisis Response Team at Finger Lakes Community College responds to student mental health crisis situations when a student is in imminent danger of harming themselves or others. When the crisis response procedures are implemented on behalf of a student, parent/legal guardian/emergency contact notification may occur and the student will be responsible for any treatment costs. A follow up appointment with a Student Services Counselor will be scheduled to help students plan for the remainder of the semester and be sure supports are in place to help students succeed. For questions about the Crisis Response Team, please come to the Office of Community Standards and Counseling, room 1155, located on the first floor of the Student Center, or call (585) 785-1211 between 8:30 am – 5 pm. After hours, contact 911.

Student Health Services

Health and wellness are important to being a successful student. The College maintains Student Health Services to empower students to make informed health and wellness decisions that enhance personal well-being, academic performance, retention and completion. Services include:

- Treatment of minor illnesses.
- Depression screening, care and referral.
- Tobacco cessation programs.
- Physical activity strategies.
- Health and inexpensive eating strategies.
- Injury Prevention and Care.
- Alcohol, drugs and violence prevention.

Health history and medical records are handled with strict confidentiality and Student Health Services complies with several State and Federal mandates to ensure privacy and confidentiality.

Members of the College Community who are experiencing medical problems or who are made aware of a medical emergency or injury will call 911 to initiate an emergency response, or 911 from inside the main campus building. Ambulance fees are billed based on the level of service.

Health insurance is available under the federal Affordable Care Act. For more information visit: www.healthcare.gov

Student Life

The Office develops students as life-long learners and leaders by providing quality programs that complement and enhance the student experience by fostering an environment where students think critically, and engage in meaningful citizenship through practical application. Student Life will excel in meeting the developmental needs of students and engage them in interconnected transformative learning experiences. By creating student-centered learning environments throughout the college. Student Life celebrates the rich diversity of our students and promotes healthy lifestyles, leadership and global citizenship. Through various activities, students at Finger Lakes Community College have the opportunity to become an active force in the on-going operation of the College. The objective is to provide realistic, growth-oriented, and practical experiences that students can take with them into any home, business, or community situation upon completing their formal education. Co-curricular activities encourage social, cultural, educational, and community awareness and involvement by:

- Providing opportunities for leadership development through participation in the Student Corporation, Student Assembly, Campus Activities Board, AALANA, student club and organization management, Women's Initiative on Leadership and other workshops;
- Promoting student self-governance as a means of developing the responsibility and effectiveness required in today's world;
- Connecting students with local and community agencies for community service and service learning opportunities;
- Participating in the planning of campus-wide programs and events that prepare students to get involved and meet the challenges of our global community; and
- Enriching the educational program of the College through these various activities.
- The College supports the efforts to register students. To that end, the Offices of Student Life, and Disability Services, will support registration activities. For a full list of activities and information, please review the website: <https://www.flcc.edu/studentlife/voter-registration.cfm>

Student Corporation

The purpose of the Student Corporation at Finger Lakes Community College is to promote the interests and concerns of the student body to both the faculty and administration. It is the students' formal link to those who create and execute policies that affect the student population and shape the educational environment of the College. It is also the responsibility of the Student Corporation to help foster an environment of meaningful and enriching co-curricular activities to provide a well-rounded and exciting educational experience at Finger Lakes Community College. Students interested in leadership opportunities with the Student Corporation should contact the Student Life Office at 585.785.1264.

Campus Activities Board

The Campus Activities Board, a standing committee of the Student Corporation, provides the majority of the social and cultural activities at Finger Lakes Community College. An on-going program of live performances, films, speakers, dances, picnics, trips, multicultural events, sporting event trips, noontime entertainment, curriculum/departmental events, and other special events are sponsored throughout the academic year.

Membership is open to any student interested in the experience of planning and implementing programs that fulfill the social, cultural, entertainment, and educational needs of the students, faculty, staff, and community.

The Campus Activities Board strives in its programming efforts to create a climate of positive, student-to-student, and student-to-staff relationships; provide real-life experiences; encourage positive College and community relationships; develop programs that are supplemental to and an integral part of the academic mission at Finger Lakes Community College; broaden individuals' awareness of cultural expression and our world; and entertain.

Clubs and Activities

To see a complete listing of the clubs and organizations that are current and active, please visit www.flcc.edu/studentlife.

Honor Societies

Alpha Beta Gamma

Alpha Beta Gamma is the national business and computer science honor society for men and women at junior and community colleges.

Criteria for induction are matriculation in an eligible business or computing science curriculum at the College, and maintaining at least a 3.5 cumulative grade point average after 30 credits.

Phi Theta Kappa

Phi Theta Kappa is a national honor society of two-year community colleges and junior colleges. This student-run organization is dedicated to scholarship, leadership, service, and fellowship. The Finger Lakes Community College chapter, Alpha Epsilon Chi, was chartered in 1981.

To be eligible for membership, an individual must meet the following criteria: 1.

1. Current matriculation in a degree program at Finger Lakes Community College.
2. Successful completion of at least twelve (12) credit hours of college level courses at FLCC. Grades for courses completed at other institutions will not be considered when determining membership eligibility.
3. Attainment of a grade point average (GPA) of at least 3.0.
4. A member from another Phi Theta Kappa chapter may transfer membership to Alpha Epsilon Chi Chapter if he or she is currently enrolled at Finger Lakes Community College and meets the maintenance GPA of the chapter.
5. Compliance with the standards for membership in the International organization as stated in the Phi Theta Kappa Constitution and By-laws.

Keeping Clubs and Activities Safe

Student Corporation, and those supported within the Corporation are committed to keeping our students and campus safe. Go to www.flcc.edu/safe to learn more of our collaboration, resources, and outreach efforts.

FLCC Association, Inc. (Auxiliary Services)

Mission Statement

The Finger Lakes Community College Association was incorporated in 1972 to establish, operate, manage, and promote educationally-related services for the benefit of the campus community, including faculty, staff, and students, in harmony with the educational mission and goals of the College.

ID Card

The Finger Lakes ID card is an integral part of the student experience at FLCC. The ID card serves as a means for students to access library materials, the fitness center, campus events, and The Suites at Laker Landing. It is also used for Laker Loot food and beverage purchases as well as vending machine purchases.

Students are required to present their student ID number along with a form of photo ID, such as a driver's license, military ID, or passport, in order for the student ID card to be processed. The initial ID card is complimentary; there is a \$10 replacement charge for reissuance in the event of a lost or stolen ID card. Information about obtaining a Student ID Card can be found at www.flcc.edu/idcard/.

Child Care Center

The Child Care Center offers students an on-campus, New York State-licensed child care program. A typical day includes educational and developmental activities for children 18 months through preschool. Before- and after-school care for children through first grade is also available. This service is available Monday through Friday from 7:30 a.m. to 5:30 p.m. year-round, with several rate and schedule options offered. For more information, call 585.394.6666.

Bookstore

The College's bookstore is located on the first floor of the Student Center and serves as the headquarters for all retail-related student needs. It sells all required course materials and supplies for College courses as well as a wide selection of gifts, general supplies, FLCC-embellished clothing and spirit wear, and laptops. The website, www.bkstr.com/flccbookstore/home is open 24/7, offering online purchases for shipment, pick-up, or campus center delivery.

Students may use excess financial aid funds to purchase their required course materials. Student ID card, course schedule, completed paperwork, and verified financial aid are necessary to activate this charging privilege, which is available prior to and during the first few weeks of each semester. An extra \$500 may be used by students, if eligible, to purchase other items in the bookstore. A student ID card is required for all course material purchases, regardless of payment method.

At the end of each semester, textbook buyback is offered as a service to students who have completed courses and no longer need their textbooks. Additional information on course materials, merchandise, and services can be obtained at www.bkstr.com/flccbookstore/home, or by e-mailing the store at bookstore@flcc.edu, or by calling 585.785.1685.

Dining Services

The College's Café offers a wide variety of food and beverage selections, including pizza, pasta, soup, salad, entrees, grilled burgers, hot and cold sandwiches, breakfast items, grab-and-go choices, Coca Cola products, and coffee. The Café is open from 7:30 a.m. to 7:30 p.m. on Mondays through Thursdays and 7:30 a.m. to 2:00 p.m. on Fridays during the semester. Students may purchase meal plans or add Laker Loot (declining balance) funds to their campus cards. Laker Loot funds receive an additional 5% bonus on purchases (financial aid transactions ineligible). All purchases made with Laker Loot are tax-free (a savings of 7.5%). Visit get.cbord.com/flcc to purchase Laker Loot. A convenient app for Laker Loot account management, GET Mobile, is available for download in the App Store and Google Play.

Vending Services

Vending machines are available throughout the main campus and at the campus centers. Beverages, candy, and snacks may be purchased using cash or Laker Loot.

Athletics

Competition in intercollegiate sports at Finger Lakes Community College includes the following sports: men's and women's soccer, men's and women's basketball, women's volleyball, men's and women's outdoor track and field, men's and women's cross country, men's lacrosse and women's lacrosse, baseball, softball, men's and women's logging sports teams and Men and Women's Esports.. The intercollegiate athletic program, in addition to healthful exercise, provides the student with an opportunity to share in the pride of fair play and sportsmanship with an understanding and appreciation of good teamwork.

Any full-time student who meets the eligibility requirements of the College and NJCAA may try out. Copies of the Equity in Athletics Disclosure Act are available from the Athletic Department. For more information go to www.flccathletics.com.

Student Wellness/Recreation/Intramurals

The College offers use of the gymnasium and fitness center throughout the academic year to all Finger Lakes Community College students. The gymnasium hours are for open-student use or may include scheduled activities based on student interest. Monthly schedules of available hours may be obtained from the Athletic Department or at www.flccathletics.com. Use of the facilities is free of charge upon presentation of the Finger Lakes SUNY ID card.

The Intramural Program at FLCC is designed to provide an opportunity for all students, faculty, and staff to participate in organized recreational competition. The goal is to provide all students a positive experience through a diverse selection of activities that will fit their athletic and fitness needs while providing a safe and healthy environment.

We are always open to any ideas, suggestions, or comments you may have concerning our intramural program. Please feel free to give us input so we can improve your experience in any way. Contact the athletic department or visit www.flthletics.com/recreation/intramurals for more information.

Auxiliary Services

Additional auxiliary services offered include student emergency loans, graduation regalia, and the annual commencement reception.

Housing

FLCC is committed to assisting students in locating suitable housing accommodations. The Suites at Laker Landing, the College's affiliated student residence hall, provides housing directly adjacent to campus. The 353-room residence hall is owned and operated by Association Housing, LLC, a subsidiary of FLCC Association, Inc., and is dedicated to providing an environment conducive to academic success. The residence hall offers a variety of four-, three-, and two-bedroom suites. Each suite contains a common living area, kitchen, and bathroom. Trained Resident Assistants, as well as on-site professional staff, provide supervision to students residing in The Suites at Laker Landing.

The Office of Housing and Residential Life also offers services to assist those students who are looking for off-campus housing. It provides a rental property listing, an on-line resource where students can find available housing in the Canandaigua area as well as *The Guide to Student Housing*, which focuses on independent student living and assists students in making off-campus housing arrangements.

Whether a student is considering The Suites at Laker Landing or private off-campus properties, the Office of Housing and Residential Life strongly suggests exploring options carefully. Reading and understanding all terms and receiving clarification prior to entering into an

agreement are extremely important. FLCC does not own, operate, or endorse any off-campus properties and the College does not become party to private landlord-tenant matters or involve itself in any transaction between or on behalf of landlords or student tenants.

New students are urged to look for housing during the winter and spring months prior to the fall semester and in the fall months prior to the spring semester. Students who are accepted by FLCC are not guaranteed housing as the rooms at The Suites at Laker Landing are in high demand. It is suggested that students interested in residing in The Suites at Laker Landing apply prior to May. The application for The Suites at Laker Landing, which is a separate process from the FLCC admission application, is available at flcc.edu/housing.

For more information on housing options and assistance with a housing search, visit www.flcc.edu/housing or contact the Office of Housing and Residential Life at 585.785.1643.

Institutional Support Services

Charles J. Meder Library

Collections - The Charles J. Meder Library provides students and faculty at Finger Lakes Community College, as well as community residents, with access to extensive information resources in electronic, print and media formats. The College's library collection consists of 60,000 volumes, 200 current periodical titles, and 8,000 media programs. Additional books and periodical articles can be obtained for patron use through the Library's participation in a nationwide online interlibrary loan system. Librarians are always available to provide individual assistance in locating and using information resources.

Access - The Library has an online public access catalog and circulation system listing all items owned by the Charles J. Meder Library. Users can also directly search for items located in other SUNY libraries across New York State as well as libraries nationwide. This online access is available to students at the main campus, FLCC Geneva Campus Center, FLCC Newark Campus Center, FLCC Victor Campus Center, as well as all students taking online classes. In addition, the Library subscribes to over 100 databases providing online access to streaming video, streaming audio, digital art collections, and over 150,000 full text periodicals and books.

Facilities - The Library provides several quiet study areas as well as attractive lounges for leisure reading and relaxation. Media facilities allow individual and small group use of audio and video tapes, CDs, DVDs, and records. The Library has individual and small group study spaces, copiers and scanners, an electronic library instruction classroom for hands-on information literacy instruction, and print collections. The Library is also home to the Academic Success and Access Programs Department (which includes the Math Center, the Write Place, EOP, Disability Services and Tutoring Services), a production studio (for use by students enrolled in the College's Communications program), and FLTV.

Technology - FLCC students, faculty and staff have access to over 60 computer stations with printing capabilities and 20 laptops that can be used anywhere throughout the three floors of the library. Additional technologies available for check out to students include: iPad minis, DVD players and graphing calculators. Wireless access is available throughout the building.

Cooperative Borrowing - Membership and participation in cooperative regional activities expand Library services. SUNY Open Access allows FLCC students, faculty, and staff direct borrowing privileges from State University of New York college and university libraries. The Charles J. Meder Library is also a member of the Rochester Regional Library Council, a consortium of academic, research, public, school (K-12), corporate, non-profit, and medical libraries in the greater Rochester area. Finger Lakes Community College's students and faculty can obtain books, journals and other media through the Council's Regional Interlibrary Loan Network as RRLC facilitates the lending and borrowing of materials among all types of libraries in its five-county service area.

Research Help - During the fall and spring semesters, the library is open 7 days a week, and help is available in many forms. Librarians offer research assistance online and in-person, as well as by telephone and email. Students unable to use the Library during normal operating hours have online access to a reference librarian through the Ask Us 24/7 library chat service. Ask Us 24/7 as well as the Library's website, online catalog, and databases can be accessed 24 hours a day, seven days a week from any computer that has internet access at: <http://library.flcc.edu/>.

Instructional Technology Services

Instructional Technology Services (ITS) offers a variety of technological resources and services to assist the college community. Services include:

- Classroom Media Equipment and Support
- Classroom Technology Design
- Presentation Support
- Training/Workshops/Short Courses
- Special Event Support
- Camera, Video Camera, Projector, and Presentation Equipment Loans

To meet the needs of the College community, ITS strives to provide enhanced instructional technologies and event support that can improve

student learning by providing rich, instructionally sound technologies, training opportunities, and multi-media experiences.

Media Production

Media Production provides multimedia services to all faculty and staff. The Media Production Suite is a workspace dedicated for the production of visual media. Services and resources include:

- Poster and Sign Printing
- Print Mounting and Lamination
- Video Production and Streaming Video
- DVD and CD Duplication
- Design Assistance and Digital Imaging

Audio/Visual communication is a vital element to instruction and administration. Media Production provides the services and resources for the college community to support that communication on a variety of platforms.

Emergency & Fire Evacuation

Areas of Refuge

In an emergency requiring building evacuation, people with mobility or visual impairment issues may not be able to evacuate without help. There are designated areas of refuge that provide protection where individuals with mobility issues may wait until assistance is available from emergency responders. Individuals should wait in the designated area of refuge away from the path of traffic and push the 911 call box located within the area of refuge to communicate directly with the 911 operator.

Emergency responders will respond to the areas of refuge to assist with evacuation. If the hazard becomes life-threatening before emergency responders arrive, move immediately into the stairwell and close all doors. If you are unable to respond to the nearest area of refuge or if you have to retreat to a different location, make sure you contact 911.

Areas of refuge on main campus can be found:

Second Floor:

- Canandaigua Wing, main stairwell
- Library, outside stairwell

Third Floor:

- Canandaigua Wing, main stairwell
- Library, stairwell stairwell

Fourth Floor:

- Canandaigua Wing, main stairwell

Buddy System

During emergencies, people with mobility issues may need assistance with evacuating a building. If there is someone whose mobility is restricted, simply ask them if they need help. Classmates may use the buddy system when evacuating the building. A buddy can assist by guiding an individual to a stairwell, waiting until clear passage is established, and helping them down the stairs.

Elevators

Elevators should not be used during an emergency. Individuals unable to travel stairs should move to an area of refuge and wait for emergency responders.

Questions

If you have questions please email or call disabilityservices@flcc.edu or 585.785.1441. Your safety is our priority. Look for the Emergency Evacuation Routes and Areas of Refuge posted throughout the College and as always, call 911 if you need assistance.

Academic Success & Access Programs

The office of Academic Success & Access Programs is located on the third floor of the Charles J. Meder Library. It is the center for all academic support services that are available at the main campus in Canandaigua. The Write Place is located in room 2441 and the Science Incubator is in room 3670. All services are free to FLCC students:

Academic Success Strategies

Meet with a member of the staff to discuss strategies for academic success, such as time management, organization, and study strategies. Stop up to the 3rd floor of the Library to schedule an appointment or call 585.785.1392.

The Math Center

The Math Center is a drop-in tutoring center staffed with professional and student tutors. With plenty of space available, it is large enough to accommodate multiple tutoring and group study sessions. Services are free and there is no need for an appointment. See the math tutoring schedule at www.flcc.edu/offices/mathcenter

The Write Place

The Writing Center offers friendly support for all campus writers at any stage of their process, for any type of project in any discipline. With locations at the entrance of the Library, as well as in each of our campus centers and Honors House, the Writing Center is staffed each week to help writers gain confidence, skill, and success with their work. Mentors are available by appointment or on a drop-in basis. Our website contains more information about our offerings as well as a range of writing resources for students and faculty.
www.flcc.edu/offices/writingcenter

Science Incubator

A Learning Center for Science is located in room 3670. The Incubator provides tutoring support and the equipment that is often required to work outside the lab and classrooms. It is staffed daily by professional tutors. Appointments can be made for tutoring or walk-in assistance is available.

Disability Services Office

Finger Lakes Community College is committed to providing an equal opportunity for all qualified students. The College does not have a formal program of study for special populations. FLCC believes that the needs of each person with a disability are individual and unique. Therefore, services are provided on an individual basis. For further information or to request accommodations, contact the Disability Services Office at 585.785.1441.

Advisement and support services are available to students who meet the eligibility guidelines as outlined on the Disability Services website at <http://www.flcc.edu/offices/disabilityservices>. For additional information, contact Disability Services at 585.785.1441.

Students with a documented physical and/or psychological and/or learning disability should contact the Disability Services at 585.785.1441 for additional information.

The Educational Opportunity Program (EOP) also resides on the third floor of the library in the Academic and Access Program area. Academic Support Services are available to students at the Geneva, Newark and Victor Campus Centers.

Computer Resources

The College's extensive computer facilities for student use consist of more than 1000 computer systems at the Canandaigua, Geneva, Victor, and Newark Campus Centers, the Muller Field Station, and FLCC's Viticulture and Wine Technology Center. Each lab or classroom has computers, software, and peripherals tailored to the needs of the classes held there.

- Wireless access to the internet is available for registered students, guests, and staff at all campus locations.
- All computer labs are equipped with Windows compatible Intel or Macintosh systems which access laser printers, the internet, email, and the internal network. All registered students are provided with web-based student email, local network accounts with data storage, access to the FLCC wireless network and off-campus access to library databases.
- Computer science classes use three computer labs for their course work with standard office suite and design suite applications, game programming, web development, business applications programming, database development, networking, and programming.
- Business classes meet in two computer labs for their work with standard office suite applications and other software for accounting, paralegal training, office automation, word processing, and travel/ tourism management.
- In the Science Department, laptops and desktop computers with specialized software are available in five labs and two classrooms for use by students in biology, engineering, chemistry, and physics classes.
- Students in Mechanical Technology or other sciences use CAD applications, GIS, and various engineering programs installed in specific student labs.
- The graphic design studio features the most current industry standards, including 20 high-end Apple workstations with a complete suite of design, web and imaging software. This area also features a large format color printer, photo printers, black and white laser printer, film scanner, flatbed scanner, 3-D printers, cutting machines and a non-toxic mounting area.
- The Nursing Department maintains a lab with specialized multimedia programs for nursing instruction. Additional stations in the nursing skills lab simulate centralized record keeping in a typical clinical environment.
- Math classes meet in a computer lab for statistics and calculus courses, in addition to standard office suite applications and other specialized math programs.
- Two computer labs are available at the FLCC Geneva Campus Center, providing all programs needed by the classes that meet there. Additional systems provide for individual tutorial activities and adaptive access.
- Two computer labs are available at the FLCC Newark Campus Center, providing all programs needed by the classes that meet there. Additional systems provide for individual tutorial activities and adaptive access.
- Five computer labs at the FLCC Victor Campus Center provide all programs needed by the classes that meet there. Additional systems provide for academic support efforts.
- Computerized assistance with research tasks is available in the main campus library. Registered students may also borrow laptop computers for use in the library. The library maintains a hands-on lab for group instruction in search techniques. Additional computers provide access to other libraries, information systems, and remote databases. Registered students and college staff can access the library's online databases from the internet.
- Specialized Macintosh systems for student instruction in performing arts are located in the music wing, the media lab, the keyboarding lab and the theater lab.
- The Academic Support Center on Main Campus uses a computer lab with software for tutorial activities and other special needs. The systems also have standard office suite software, math applications, and programming languages as needed for peer tutoring or other individual assistance.
- Two open labs are available on Main Campus for students to work on assignments when their regular classroom lab is in use for other classes. Systems in this lab have most of the software that are used in classes. One of these labs has accommodations for students who bring their own devices to school and who may need to charge their device or work collaboratively with other students.
- A multimedia lab may be reserved on an ad hoc basis for occasional use by classes which do not ordinarily meet in a computer lab. It is available for open use when not reserved for a class meeting.

Gladys M. Snyder Center for Teaching and Learning

The mission of the Gladys M. Snyder Center for Teaching and Learning at Finger Lakes Community College is to foster innovation, communication, and opportunities for professional development in all areas of teaching effectiveness.

Our long-term vision positions us at the intersection of scholarship and teaching.

Goals:

- To foster teaching effectiveness and enhance student learning.
- To facilitate and support faculty development.
- To coordinate and share educational resources and expertise.
- To encourage classroom research and teaching innovation.
- To support peer mentoring.

Objectives:

- To provide opportunities for learning about new classroom strategies and new teaching technology, and to facilitate discussions of pedagogical issues.
- To create opportunities for peer interaction and cooperation.
- To increase awareness of the learning needs of an increasingly diverse student body and to develop and implement strategies to meet these needs.
- To sponsor workshops, seminars, conferences, and sharing sessions requested by faculty.
- To increase and strengthen faculty networks for the exchange of ideas, teaching materials, and instructional information.
- To work with neighboring educational institutions, including secondary schools, colleges and universities, in the promotion of teaching effectiveness.

Campus Centers

Finger Lakes Community College offers a wide variety of courses at its Campus Centers to meet the needs of the residents of those communities and the surrounding area. Students can complete a majority of their degree programs or take courses for self-enrichment.

Geneva Campus Center: With its convenient location within the community, flexible scheduling options, and varied course offerings, enrolling at the FLCC Geneva Campus Center makes it possible to balance work and other obligations while pursuing your educational goals. This beautiful landmark features state of the art facilities and friendly faculty and staff that are dedicated to support you during your academic journey. Small classroom settings, professional and peer tutoring, student life programming, and One Stop services on a rotating basis, are available to allow you the opportunity to explore your interests and be successful! The FLCC Geneva Campus Center offers courses toward many areas of study, including Business Administration, Chemical Dependency Counseling, Criminal Justice, EMT/Paramedic, Health Care Studies, Human Services, Liberal Arts and Sciences, and Viticulture and Wine Technology.

Newark Campus Center: Get a start on your FLCC education close to home. Located in the Silver Hill Technology Park, just south of the Village of Newark, here you can begin degree programs such as Accounting, Business Administration, Chemical Dependency Counseling, Human Services, Criminal Justice, Liberal Arts, and Health Care Studies in an intimate and supportive environment. Services offered include student activities, professional and peer academic support and tutoring, academic advisement and full One Stop services offered on a rotating schedule. The Newark Campus Center offers many convenient scheduling options such as daytime classes on a two day per week schedule as well as some evening course options.

Victor Campus Center: At this state-of-the-art facility, you will be able to complete nearly all of your degree requirements in one of the following programs: A.A.S. Architectural Technology, A.S. Engineering Science, A.A.S. Networking and Cybersecurity, A.A.S. Instrumentation and Control Technologies Smart Systems Technologies, and A.A.S. Mechanical Technology. We also provide a twelve-week non-credit program in Mechatronic Technology for students interested in acquiring the skills necessary to enter advanced manufacturing and other high-tech industries. Plus, you'll be able to take advantage of FLCC's Regional Learning Partnerships, which lets you earn credit from four-year colleges and universities right at the Victor Campus Center. The center provides an environment conducive to learning with academic support available throughout the day and plenty of student life activities to enhance your college experience. As an added convenience, One Stop Services are available on a rotating schedule.

The Advancement Department

The Advancement Department plans and implements a comprehensive strategy to share news and information about FLCC, foster community- college partnerships, and ensure a strong base of financial support for the College.

Advancement functions include community partnerships, media relations, publications, fundraising, grants, events and alumni affairs. Two offices carry out these functions: Resource Development (ORD) and Community Affairs.

Office of Resource Development

The Office of Resource Development (ORD) focuses on building strategic relationships with various stakeholders of the College, including alumni, community supporters, donors and government leaders. The department supports grants, alumni affairs, fundraising, events and government relations. Donor research, planning, cultivation and gift stewardship are also managed by the department. In addition, ORD coordinates student scholarships, oversees College fundraising policies and procedures, and is the home of the FLCC Foundation, a separate 501(c)(3) organization. The Office of Resource Development is located in room 1410 on the first floor of the main campus building. For more information, call 585.785.1541 or email foundation@flcc.edu.

Workforce & Career Solutions (WCS)

Workforce & Career Solutions (WCS) provides direct support to employers seeking to strengthen their workforce through customized training and certificate programs. WCS also offers a wide array of offerings for individuals seeking to advance and enhance their careers.

More than 800 professional, vocational and career offerings are available in several categories and formats, including:

- Workforce Training
 - Compliance
 - Customized Training Solutions
 - Industry Certification
 - Leadership and Interpersonal Excellence
- Personal and Professional Development
 - Advanced Manufacturing
 - Allied Health Programs
 - Education
 - Health Care
 - Information Technology
 - Professional Licensure

To view WCS's non-credit course and program offerings, visit our web page at www.flcc.edu/workforce. For additional information, call 585.785.1670 or email workforce@flcc.edu. At the main Canandaigua campus, the WCS office is located on the first floor of the Canandaigua wing in room 1436.

Business Training Solutions

Businesses seeking to remain competitive in today's economy must invest in developing and retaining a highly skilled workforce. Workforce & Career Solutions (WCS) is the College's center for workforce development. To help companies remain competitive, improve satisfaction, and keep employee skills current, a variety of options are available. WCS offerings include online non-credit, one-on-one coaching, small group training, and non-credit course offerings, which can then lead to certification. All solutions are tailored to your company's unique needs.

Advanced Manufacturing Machinist

Advanced Manufacturing Machinists work in an exciting field of robotics, numerical controls and high precision machining. This industry is rapidly evolving and significant job opportunities exist. These occupations are in-demand, high-growth and typically provide for rapid advancement. Today's Machinists work with sophisticated state-of-the-art equipment and use their advanced knowledge of the working properties of materials and their skills with machine tooling and programming to plan and carry out the operations needed. They help produce sophisticated machine products that meet highly precise specifications. The parts machinists make range from automotive parts to components used in aerospace and medical instruments. With a 95+ percentage placement rate, FLCC's Advanced Manufacturing Machinist program prepares students for employment in this dynamic field.

Allied Health Programs

Online Allied Health courses and programs prepare students for jobs in health care. Topics offered include Veterinary Assistant, Medical Office Assistant, Phlebotomy, Clinical Medical Assistant, HIPAA Compliance, Medical Transcription, and ICD-10 Medical Coding: Preparation and Instruction for Implementation. These programs are offered online as independent studies or facilitated by an online coach.

Mechatronic Technology

Mechatronic Technology covers a broad range of skills, preparing students to enter the advanced manufacturing industry. This 12-week training program is designed to provide the introductory skills and knowledge required to perform a number of middle-skill jobs including: advanced manufacturing operators, machine fabricators and assemblers to name a few. This program prepares students for a career in the field of manufacturing where advanced technical skills are needed to perform various functions within precise specifications.

Child Development Associate (CDA) a professional licensure program

- WCS's Child Development Associate Program prepares learners to meet the specific needs of children to nurture their physical, emotional, social and intellectual growth.

Nurse Assistant

By completing this FLCC course and passing the New York state certification exam, students become NYS Certified Nurse Assistants. This non-credit program includes classroom training in the principles and practices of patient care and clinical experience in a long-term care setting. Participation in an orientation and interview are required prior to registering for the Nurse Assistant course. Nurse Assistant positions are in demand in many area hospitals and nursing homes, and financial assistance is available for training. Highly in-demand, program graduates typically have a job offer upon graduation from this six-week program.

Home Health Aide:

The demand for experienced Home Health Aides continues to increase – largely due to our aging population and the rising demand for in-home or agency-based health care services from a well-trained professional. Through this program, students learn the basic medical and personal services required to care for clients. Home Health Aides are employed by home health agencies, hospitals and nursing homes. This in-demand occupation typically allows for more flexibility in hours and weekly scheduling than other health care occupations.

Phlebotomy Technician:

The Phlebotomy Technician Program prepares professionals to collect blood and other specimens from clients for the purpose of laboratory analysis.

Course Content

Students will learn:

- Process and procedures for collecting blood specimens for laboratory analysis
- All aspects of blood collection and related procedures
- The order of draw
- Universal precautions
- Skills to perform venipunctures completely and safely
- Terminology and related anatomy and physiology
- Infection control, safety, first aid, & personal wellness
- Laboratory operations (e.g. safety, quality control)
- Blood banks and blood typing, lab departments and personnel
- Non-blood specimens and tests
- Pediatric and geriatric blood collection
- Heel puncture, protocol, practice, and syringe draws
- Respiratory, pneumonia and TB isolation protocol

Requirements

- At least 18 years of age.
- A high school graduate or working on a HSE.
- In good health. MMR and PPD immunization records must be up to date.
- Dependable, patient, tactful, and have a desire to help people.
- Able to communicate well and have positive relationships with patients.

Cost

Tuition and fees are \$2,099.00. This includes course textbooks, all written and lab material, and the National Healthcareer Association (NHA) Phlebotomy Technician Exam.

Funding Resources

You may be eligible to receive funding for these programs. Learn about the variety of ways you can finance your education.

Orientation Information

A mandatory orientation for anyone entering the program is required.

Call (585) 785-1670 or email: workforce.flcc.edu if you have any questions about the program or orientations.

Academic Standards

Philosophy

Academic programs and co-curricular services and activities of the College directly support the College mission to serve as a dynamic learning resource, empowering our students to succeed and fueling the cultural and economic vitality of the region. Academic instruction in the fields of Liberal Arts and Sciences, and several career oriented areas are designed to promote sharply focused disciplinary knowledge together with more generic critical thinking, problem solving and decision making skills. Co-curricular services, programs and activities complement the academic curriculum, providing opportunities for experiences that promote the development of personal and interpersonal competencies and appreciation for the value of continuous self-discovery and lifelong learning.

The policies of Finger Lakes Community College encourage the pursuit of scholarship within a positive and supportive environment. Academic Standards and Regulations are designed to support this philosophy, and the College has adopted the following guidelines to assist in this purpose. The College faculty are authorized to specify attendance, testing, and grading policies consistent with the purpose and nature of the course and the Academic Standards and Regulations that are listed in this section.

Definition of Terms

Curriculum: A program of courses approved for a specific degree or certificate.

Electives: Credit courses, not required in a given curriculum, but which may be taken for credit toward graduation.

Full-time Student: A student enrolled for twelve (12) or more credits during a semester.

Part-time Student: A student who is taking fewer than twelve (12) hours during a semester.

Imputed Credit: Course numbers that start with (0) can be used for financial aid purposes but do not count as fulfilling requirements for a degree. (no credit is assigned and the course grade will not affect the student's grade point average).

Good Standing: A student who successfully meets a cumulative grade point average according to the College's Standards of Progress (see page 42).

Academic Probation: A student who fails to meet the College's Standards of Progress (see page 42). A student on academic probation is limited to a maximum of 13 credit hours.

Academic Dismissal: A student who fails to meet the minimum Standards of Progress following a probationary semester (see page 42). A student, who has been academically dismissed, must complete the academic appeal process to be reinstated. The dismissal remains in effect until the student has been readmitted by the Committee on Academic Standing or, in certain circumstances, the Director of Community Standards.

Matriculated Student: A student is matriculated upon acceptance into a program of study at the College that leads to a degree or certificate.

Non-Matriculated Student: An individual who is taking courses without applying or being accepted for matriculation in a degree program. Non-matriculated students are restricted to a maximum of eleven (11) hours of credit during any one term.

Overload Status: A student may petition to pursue overload status (see page 23), in any given term, by securing approval from their advisor and the Associate Vice President of Instruction and Assessment. An additional fee is required.

Prerequisites: Certain courses require that students have completed previous courses or meet other conditions in order to add that course to their schedule. These courses are identified by the word "Prerequisite" at the end of the course description in WebAdvisor and in the College Catalog. A prerequisite may be successful completion of one or more college level courses with a C- or better (unless a different grade is indicated) or a minimum placement test score.

Co-requisite: Concurrent (simultaneous) enrollment in or prior successful completion of a companion course is required.

Grading System

The following grades, as well as plus and minus grades, are awarded in credit courses for which quality points are computed. Imputed Credit courses are not used in calculating semester or cumulative GPAs and are not applicable toward graduation but follow all other procedures.

- **A** An honor grade given for work of excellence and distinction
- **B** Represents work of consistently high quality
- **C** Represents work of average quality, within broad ranges, which meets the essential requirements of the course

- **D** Indicates some evidence of accomplishment meeting the minimum requirement for the award of course credit. A D grade does not meet pre-requisite requirements.
- **F** Student's academic accomplishment does not meet minimum requirements for the awarding of course credit.

The following grades are available only for those courses designated as being graded on a satisfactory/unsatisfactory grading scheme:

- **S** Satisfactory completion of the course requirements
- **U** Student's academic accomplishment does not meet minimum requirements for the awarding of course credit

The following symbols may be used for credit or non-credit courses. These are not counted toward graduation:

- **NA Never Attended**

Occurs when a student never attends any meeting of a course as defined by federal financial aid standards. NA is instructor-initiated and is not calculated in the student's grade point average.

- **W Official Withdrawal**

Official withdrawals are initiated by the student. Withdrawal from a course or courses before 20% of the scheduled meeting time has passed will result in no transcript record. Official withdraw from one or more courses after this point, without penalty to a student's grade point average, is permitted within the time frames detailed below, resulting in a W symbol being recorded. If a student wishes to withdraw from all of his/her in-process courses at the college he/she should contact Academic Advising, Career and Transfer Services to discuss the impact of withdrawal. The student then submits the Online Withdrawal from All Courses form. The date the form is received is the official date of withdrawal.

- **I Incomplete**

This temporary grade indicates that a student was unable to complete a portion of the course work by the end of the semester due to extenuating circumstances. This grade is assigned at the discretion of the instructor by following the procedure outlined in the Grading procedures. The deadline for completing incomplete work is at the instructor's discretion, but will not exceed one calendar year. After the student has completed the work, the instructor of record follows the standard Change of Grade procedure to change the "I" to the appropriate grade. After grades are transcribed, an I – Incomplete – may be assigned through the completion and processing of an Incomplete Grade Contract with the addition of the standard grade change process. The student will be notified when any grade change occurs.

- **X Administrative Withdrawal**

Students will be administratively withdrawn if they fail to provide proof of immunity and acknowledgment of meningococcal meningitis vaccine information as required by New York State Public Health Law 2165 and Health Law 2167. A grade of "X" will not be calculated in the student's grade point average and cannot be used toward graduation.

- **AW Conduct Withdrawal**

According to the Student Code of Conduct, should a student be sanctioned for conduct reasons leading to a suspension or dismissal before completion of their current term/semester, a symbol of AW will be recorded for all courses affected. See the Student Code of Conduct, "Sanctions", for more information. Once a student's appeal process is exhausted as outlined in the Code of Conduct and Grievance Procedures, the Director of Community Standards will notify the Registrar in writing to place the AW on the student's record. Like the W symbol, courses in which a student received an AW symbol will not be used to calculate GPA.

- **MW Medical Withdrawal**

Indicates that a student withdrew from some or all courses that they were enrolled in for a given semester for documented medical or psychological reasons. To have MW symbols recorded for a semester, a student must first withdraw from courses (see above) during the period each semester that they are able to do so. Students must then submit a medical withdrawal petition to have the W symbol changed to MW. Petitions must be accompanied by supporting documentation from a licensed health care provider. Petitions may be submitted at the time of withdrawal, but no later than the fourth week of the subsequent semester following the withdrawal. Like the W symbol, courses in which a student received an MW symbol will not be used to calculate GPA.

- **AU Audit**

Auditing a course allows a student to take a course while receiving neither a grade nor credit. A student who audits a course does so for the purposes of self-enrichment and academic exploration. Students register to audit a course through the established registration procedures, only upon the approval of the instructor of record, and may change status from "auditing" to "registered for credit" or from "registered for credit" to "auditing" only before the day transcribing withdrawals would occur. The auditing student will be responsible for all tuition and fees for the course (except senior citizen auditors), supplying the college with an updated Certificate of Residence (except senior citizen auditors) and for meeting the college Immunization requirements (as required by NYS Public Health Law 2165). In all cases, the instructor of record is encouraged to discuss with the potential auditor expectations regarding the level of participation of an auditor, responsibilities of the instructor to the auditor (i.e., grading of and assistance with coursework), and specific limitations, if any, on class participation. Senior Citizen Auditors: persons who have reached the age of 60 are permitted to audit courses, per New York State legislation, "without tuition, examination, grading or credit," on a space-available basis. Senior citizen auditor registration will begin the first day the course section meets, and requires the approval of the instructor of record.

- **T Transfer Credit**

A symbol used on some internal reports to indicate credit applied to an FLCC degree that was earned through an external source, including transfer credit from other colleges, credit by exam, portfolio review, or other prior learning experiences. Grades are not recorded for such credit on official transcripts, and do not affect GPA.

Academic Honesty

The College, like all communities, functions best when its members treat one another with honesty, fairness, respect, and trust. Finger Lakes Community College expects academic honesty and integrity from all students and believes it is an important aspect of each student's education and preparation for the future. All members of the College community should realize that deception for individual gain is an offense against the members of the entire community, and it is everyone's responsibility to be informed of College regulations on academic honesty.

Academic Dishonesty

Engaging in forms of academic dishonesty, such as cheating and plagiarism is prohibited. The term "cheating" includes, but is not limited to: 1) use of any unauthorized assistance in taking quizzes, tests, or examinations; 2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; 3) the acquisition, without permission, of tests or other academic material belonging to a member of the College faculty or staff; or 4) aiding and/or abetting another student for the purpose of cheating. The term "plagiarism" includes, but is not limited to the use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials. These definitions, examples, and prohibition of academic dishonesty apply equally to all FLCC classes, whether online, at a campus center, or through any other method(s) of delivery.

Forms of academic dishonesty will not be tolerated by Finger Lakes Community College. Consequences for violations of academic honesty will be determined by the instructor and may range from a warning to receiving an "F" in the course, and/or a Code of Conduct charge being filed. Students who have been assigned a grade of "F" for academic dishonesty will not be permitted to change that grade by withdrawing from the course.

Repeat Courses

A student who repeats a course (that cannot be repeated for credit) for a higher grade can only count the course as credit towards full-time status for purposes of financial aid if the student initially received a grade of "F" in the course or a higher grade is required by the academic department. For those students who do repeat a course, the higher grade will be calculated in the cumulative grade point average and count as credits completed. Both courses will continue to appear on the student's transcript.

Grade Point Average

The cumulative Grade Point Average (GPA) is determined by dividing the total number of grade points earned by the total hours of credit hours with grade points. Credit hours for courses with a grade of "F" are added into the total number of credit hours for calculation of the GPA. All grades carrying grade points are used in calculation of the GPA. In the case of repeated courses, the higher grade is used to calculate the GPA. Imputed Credit Courses are not used in calculating semester or cumulative GPAs.

Grade	Grade Points
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7

D+	1.3
D	1.0
D-	0.7
F	0.0

The following grades and symbols will not be used in calculation of the GPA:

- S
- U
- NA
- W
- AW
- MW
- I
- X
- AU
- T

Example of how a Grade Point Average (G.P.A.) is computed:

Grade	Grade Points per Hour	Credit Hours	Grade Points Earned
A-	3.7	3	11.1
F	0.0	4	0.0
W	0.0	0	0.0
C+	2.3	3	6.9
I	0.0	0	0.0
S	0.0	0	0.0

GPA = Grade Points Earned / Credit Hours Attempted in Grade Point Courses (ex. 18/10 = 1.8)

Dean's List

The Dean's List is recognition of high academic achievement for a semester. The Dean's List for full-time students shall be compiled at the end of each fall and spring semester. Full-time students are eligible if they are matriculated and achieve a 3.5 Grade Point Average (12 or more hours of earned credit), and all grades above passing and have no incompletes.

Part-time students are eligible if they are matriculated, have completed a minimum of 12 credit hours at FLCC, earn a combined total of at least twelve credit hours for a given academic year, and achieve a 3.5 Grade Point Average with all grades above passing and no incompletes. The student must be part-time for both fall and spring semesters. The Dean's List for part-time students shall be compiled at the end of the spring semester only.

Standards of Progress

Finger Lakes Community College requires 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. In order to be in good academic standing and to be making

academic progress toward a degree or certificate, a student must meet a minimum cumulative grade point average according to the table below. At least once each semester, students should meet with their faculty advisor or with a staff member in the Office of Academic Advising, Career and Transfer Services to review their academic progress.

If the standard of progress is not achieved at the intervals noted below, a student will be placed on academic probation. A student who fails to meet the College's Standards of Progress for two semesters in succession is not in good academic standing and may be academically dismissed from FLCC.

Attempted Credits	Minimum Cumulative G.P.A.
6-13	1.50
14-29	1.80
30 and greater	2.00

Academic Probation

When a student fails to meet the Standards of Progress, the student is placed on academic probation. Academic probation serves as a warning that a student is in serious academic jeopardy. At the conclusion of the probationary semester, the student may 1) move to good academic standing if progress is achieved according to the intervals noted in the table above, 2) continue on academic probation if progress is shown towards meeting the Standards of Progress, or 3) be academically dismissed if progress is not shown towards meeting the Standards of Progress (refer to Academic Dismissal, below). Students who have been placed on academic probation will meet with their faculty advisor or a staff member in the Office of Academic Advising, Career and Transfer Services to discuss the requirements for good academic standing. A student on academic probation is limited to 13 credit hours unless a Probation Overload Request is filed with, and approved by, the AVP of Instruction or Student Affairs. Probation Overload Request forms are available online at flcc.formstack.com/forms/overload.

Academic Dismissal

When a student fails to meet the minimum Standards of Progress following a probationary semester, the student may be academically dismissed from the College. Academic dismissal means that the student is no longer in a degree program, loses all financial aid, and is not eligible to return to FLCC without completing the Academic Appeal process (refer to Academic Appeals, below). A student may appeal the dismissal only due to extenuating circumstances. Dismissed students, regardless of their financial aid status, must appeal in order to continue or reactivate enrollment. Academic dismissal remains in effect until the student has been readmitted by the Committee on Academic Standing or, in certain cases, the AVP of Instruction or Student Affairs.

Academic Appeals

A student who has been academically dismissed from FLCC may appeal the dismissal if extenuating circumstances contributed to this dismissal (including, but not limited to; illness, injury, medical reasons, etc.). To begin the Academic Appeal process, the student must complete an Academic Dismissal Appeal. Academic Dismissal Appeal forms are available online at <https://flcc.formstack.com/forms/dismissal>. Students are strongly encouraged to meet with a staff member in the Office of Academic Advising, Career and Transfer Services to review the Academic Appeal process. The appeal and any supporting documentation must be returned to the AVP of Instruction or Student Affairs by the stated deadline. The Committee on Academic Standing will review and act on the appeal. The Committee on Academic Standing is comprised of faculty members, representatives from the Office of Academic Advising, Career and Transfer Services, Financial Aid Office, Student Accounts, and Community Standards and Counseling. Appeals are reviewed by the Committee on Academic Standing and/or AVP of Instruction or Student Affairs on a periodic basis throughout the academic year. The Committee on Academic Standing is the final authority on appeals of academic dismissal. Students will be notified in writing or via e-mail regarding the outcome of their appeal. Students may contact the AVP of Instruction or Student Affairs with any questions regarding the Academic Appeal process at 585.785.1284.

Reinstatement for Academically Dismissed Students

A student who has been academically dismissed for not meeting the College's Standards of Progress will gain re-admission after leaving the College for the periods stated below.

When an Academic Appeal is granted, the student will be reinstated with probationary status and required to meet conditions specified by the Committee on Academic Standing, and/or the AVP of Instruction or AVP of Student Affairs, which may include completing a specific course(s), limiting the number of credit hours for which the student may register, achieving a semester grade point average of 2.00, restriction from online courses, and/or successfully completing all coursework. Students failing to meet the conditions will be required to be separated from the College as follows:

- 1st failed contract/dismissal – One year leave from Finger Lakes Community College
- 2nd failed contract/dismissal – Three years leave from Finger Lakes Community College
- 3rd failed contract/dismissal – Three years leave from Finger Lakes Community College

Students may contact the AVP of Instruction or AVP of Student Affairs with any questions regarding reinstatement at 585.785.1284.

Academic Requirements for Maintaining Federal and State Financial Aid

Federal and State Regulations require all financial aid recipients to maintain satisfactory academic progress in a course of study leading to a degree or certificate. Failure to meet one or more of the established standards of federal Satisfactory Academic Progress (SAP) will make a student ineligible for financial aid. Financial aid SAP status includes all previous academic history, even if the student did not receive financial aid. Standards are reviewed at the end of each semester, including summer. It is the student's responsibility to monitor academic progress and to understand that criteria needed to maintain financial aid eligibility. Additional details are available on <https://www.flcc.edu/offices/financial-aid/eligibility.cfm>.

Federal Academic Requirements (Pell, Federal Direct Loans, SEOG, and work study)

A detailed listing of how courses are counted in the calculations is available on the Maintaining Eligibility section of the Financial Aid Website: <https://www.flcc.edu/offices/financial-aid/eligibility.cfm>.

Maximum Timeframe toward completion: Student must complete all degree program requirements within 150% of program length. FLCC programs range from 63-64 credit hours required to earn a degree. Based on this, students must complete their degree program within 95-96 attempted hours.

Minimum Cumulative GPA (qualitative measure): Students must earn a minimum cumulative grade point average (GPA) of 2.0, to stay on track to complete their program on-time (within 63-64 credits) or within the 150% timeframe (95-96 credits).

Pace of completion (quantitative measure): Students must successfully complete 67% or 2/3 of all courses attempted, cumulatively, to stay on track to complete their program on-time (within 63-64 credits) or within the 150% timeframe (95-96 credits).

Federal Satisfactory Academic Statuses

Good Standing: Students meeting all criteria of federal SAP requirements (cumulative GPA, pace and maximum timeframe) are considered in good standing and eligible for federal aid in the subsequent semester.

Financial Aid Warning: Students who fail the cumulative GPA or pace criteria federal SAP requirements (cumulative GPA or pace) for the first time will be placed in a Financial Aid Warning status for one semester. No appeal is necessary.

Financial Aid Suspension: Students who again fail the cumulative GPA or pace criteria federal SAP requirements (cumulative GPA or pace) after the Financial Aid Warning semester become ineligible for federal financial aid and placed in Financial Aid Suspension status. Students who have not met the maximum timeframe criteria will be placed in Financial Aid Suspension Status. The student may appeal this status. Additional information is in the section, "Appeal for Reinstatement."

Financial Aid Probation with Academic Plan: Students who successfully appeal the Financial Aid Suspension status will be placed in Financial Probation status and required to develop an academic plan outlining how they will regain good standing in subsequent semesters and within 150% of their program length.

Appeal for Reinstatement

Upon Financial Aid Suspension, students may appeal for reinstatement of their federal financial aid based on extenuating circumstances. Federal regulations limit the circumstances that we may consider to: personal injury or illness, the death of a relative, or other circumstances beyond the student's control.

An appeal must include all of the following:

1. Explanation of why the SAP criteria was not met.
2. Explanation of what has changed in their situation and how they plan to regain good standing in the subsequent semester and within 150% of their program length.
3. Documentation and/or a statement from someone knowledgeable of their situation, in support of their appeal may be provided, at the discretion of the student.

Appeals will be reviewed by a committee led by the Director of Financial Aid and comprising other appropriate college representatives. If the appeal is denied, the student is ineligible for federal student aid until they have regained good standing in subsequent semesters and within 150% of their program length. More information is available on the Maintaining Eligibility section of the Financial Aid Website:

<https://www.flcc.edu/offices/financial-aid/eligibility.cfm>.

Additional considerations

Please go to the Maintaining Eligibility section of the Financial Aid Website: <https://www.flcc.edu/offices/financial-aid/eligibility.cfm> for more information about *FLCC's Fresh start Program and federal SAP standing; Degree Program Changes; and the treatment of Remedial and Repeated Coursework; application of aid to coursework outside a degree program.*

New York State Academic Progress Requirements (TAP, APTS)

At the conclusion of the fall and spring semesters, the Financial Aid Office reviews grades to determine if recipients are making good satisfactory academic progress. To remain eligible for State student financial assistance, a student must remain in good academic standing. Good academic standing consists of two elements, defined in section 145-2.2 of the Regulations of the Commissioner of Education: (1) make satisfactory academic progress toward a degree and (2) pursue the program of study.

To make satisfactory academic progress toward a degree, a student must earn a minimum number of credits with a minimum grade point average each term an award is received. If the student fails to make progress toward a degree—either by failing to accrue sufficient credits or by failing to achieve a sufficient cumulative grade point average--the student loses eligibility for a subsequent award. The student can regain eligibility in one of four ways:

- A. make up the deficiency without benefit of State financial assistance;
- B. be eligible for and granted a one-time waiver;
- C. stay out of school for one calendar year; or
- D. transfer to and be accepted at another institution.

Pursuit of Program (Semester Progress)

In each term an award is received, the student must receive a passing or failing grade in a minimum percentage of the full-time or part-time course load, as applicable, to remain eligible for a subsequent award. A student who fails to complete (get a grade in) the appropriate percentage of the minimum course load loses eligibility for a subsequent award.

Refer to the table below to determine the percentage of earned credits students must achieve before receiving a subsequent payment of NYS TAP and APTS (Aid for Part-time Study) Grant.

Semester	Full-time Students (Minimum 12 credits)	Part-time Students (Minimum 6 credits with prior full-time year & TAP payments)	Part-time Students (Minimum 6 credits with prior coursework & no TAP payments)	Part-time Students (Minimum 3 credits & receiving APTS)
1	50%	12 earned	24 credits in 1 st year	50%
2	50%	12 earned		50%
3	75%	75%	50%	75%
4	75%	75%	50%	75%
5	100%	100%	75%	100%
6	100%	100%	75%	100%
7	100%	100%	100%	100%
8	100%	100%	100%	100%
9	EOP Only- 100%	EOP Only- 100%	EOP Only- 100%	EOP Only- 100%
10	EOP Only- 100%	EOP Only- 100%	EOP Only- 100%	EOP Only- 100%

Standards of Good Academic Progress (Cumulative Progress)

A student must be able to meet the Pursuit of Program requirements and the Satisfactory Academic Progress Standards to remain eligible to receive State aid. Some of the programs affected are the Tuition Assistance Program (TAP), Child of Veteran Award, and Aid for Part-time Study (APTS). Please note, the following charts are based on full-time attendance.

The following chart should be used for non-remedial students who first received TAP in 2010-2011 or later. Charts for Remedial Students are available under the State Eligibility section within Maintaining Eligibility on the Financial Aid Website: <https://www.flcc.edu/offices/financial-aid/eligibility.cfm>.

Programs: Associate Program						
Calendar: Semester 2010-11 and thereafter (non-remedial students)						
Before Being Certified for This Payment	1st	2nd	3rd	4th	5th	6th
A Student Must Have Accrued at Least This Many Credits	0	6	15	27	39	51
With at Least This Grade Point Average	0	1.3	1.5	1.8	2.0	2.0

The following chart should be used for ADA Part-Time students who first received TAP in 2010-2011 or later.

Program: Associate Program Calendar: Semester 2015-16 and thereafter (ADA Part-time students)								
Before Being Certified for This Payment	1st	2nd	3rd	4th	5th	6th	7th	8th
A Student Must Have Accrued at Least This Many Credits	0	3	9	18	30	42	51	60
With at Least This Grade Point Average	0	1.3	1.5	1.8	2.0	2.0	2.0	2.0

Details regarding Treatment of Non-Credit Remedial Coursework; Courses within a Degree Program; Repeat Courses and Transfer Students eligibility can be found under the State Eligibility section within Maintaining Eligibility on the Financial Aid Website:

<https://www.flcc.edu/offices/financial-aid/eligibility.cfm>

Reinstatement of Aid Eligibility

Waiver for Reinstatement of State Financial Aid Eligibility

Students who lose their eligibility for New York State financial aid (Tuition Assistance Program/TAP, Aid for Part-time Study/APTS) for failing to make Pursuit of Program and/or Standards of Good Academic Standing (noted above) may apply for a waiver to have their State financial aid reinstated.

Situations that caused a student to lose good academic standing should be beyond the student's control, not chronic circumstances that cannot be remedied. With the additional term that results from approval of the waiver, a student should be able to regain good standing. If approved, state aid will be reinstated.

In order to apply for a Waiver for Reinstatement of State Financial Aid Eligibility the student must provide the following:

1. Explanation of unusual/extenuating circumstance existed and affected their academic performance;
2. Explanation of how their circumstance(s) is now resolved or be addressed in subsequent semester; and
3. Documentation of the circumstance(s) from a counselor, professor, advisor, or other person who is knowledgeable of the situation.

Types of Waivers

Good Academic Standing Waivers (AKA One-time Waiver): When a student fails to meet Pursuit of Program or Good Academic Progress for a semester due to circumstances beyond their control, NYS stipulates that the good academic standing requirements "may be waived once for an undergraduate student..." with documentation of the situation.

C-Average Waiver: A student may be eligible for a C-Average Waiver based on: the death of a relative of the student; the personal injury or illness of the student; or other extenuating circumstances. The C-Average is equivalent to a cumulative 2.0 GPA. It is important to note that students pursuing an Associate's Degree is not required to achieve a C-Average until their 5th semester. However, the College's Academic Standing guidelines and Federal SAP regulations require a 2.0 cumulative GPA well before this timeframe.

Coursework Completion: State aid eligibility will be reinstated after a student meets Pursuit of Program and Standards of Good Academic Progress mentioned above or has not used TAP for at least 1 year. Exception: Students that have received 4 semesters of TAP must have a minimum 2.0 cumulative GPA before state aid can be reinstated.

Fresh Start Policy

Finger Lakes Community College has instituted an institution specific policy recognizing the fact that some students may attend the College prior to actually being ready to pursue a college education. Students may attend a semester or two and receive failing or near failing grades. Often the student may stop attending and return many years later only to have the grades from their previous academic endeavor negatively impact their current academic standing.

Students returning to Finger Lakes Community College after an absence may petition to have their prior work excluded from their current Grade Point Average (GPA) calculation. If a student is granted a Fresh Start, the transcript will be modified as follows: grades of S (satisfactory) and C- or better will not be calculated in the GPA but the credit will count towards graduation requirements. The courses and grades would remain on the transcript to reflect an accurate academic history. Courses with grades of D+, D, D-, F, and U will also remain on the transcript to reflect an accurate academic history, but the grades would no longer be calculated into the GPA, and the credit would no

longer count towards graduation requirements. All prior coursework will continue to be considered when determining Financial Aid eligibility. Students who have been away from the College for five or more years may be granted a “Fresh Start” by petitioning the AVP of Instruction or Student Affairs. If a student has less than a five year absence from the College but has extenuating circumstances that warrant a Fresh Start, the student may also petition the AVP of Instruction or Student Affairs. Students can be granted only one Fresh Start petition during their academic career at Finger Lakes Community College and must petition no later than the fourth week of the semester following their second semester back at FLCC.

Greater consideration will be given to candidates demonstrating a large disparity between prior and current academic performance. Students should be aware that Fresh Start petitions which would remove from GPA calculations acceptable grades (C- or better) from GPA calculations are unlikely to be granted. Students are discouraged from submitting petitions in an attempt to qualify for scholarships, join organizations, or enter certain academic programs.

1. The student will obtain a Fresh Start form online, from the College website and submit the completed form.
2. The AVP of Instruction or AVP of Student Affairs will determine—within five business days—if there is merit for a Fresh Start.
 - a) If there is merit to the case, the AVP of Instruction or AVP of Student Affairs will forward the petition to the Academic Grievance Board for a decision.
 - b) If there is no merit, the AVP of Instruction or AVP of Student Affairs will notify the student in writing of the decision.
3. The Academic Grievance Board will have 15 business days to review and make a determination. The Academic Grievance Board’s decision is final.
4. The student will be notified of the decision of the Academic Grievance Board within five business days.
5. Student Records is notified of the outcome and grades are changed accordingly.

All documents will be retained by Student Records and stored in accordance with the record retention policy.

Application for Degree or Certificate

Students are responsible for submitting a Graduation Application to the One Stop Center prior to the start of the semester in which they plan to graduate. Failure to apply by this time may delay the awarding of the degree. Students who fail to complete a Graduation Application Form may not be listed in the annual commencement program and may not be certified as graduates.

Graduation Requirements

Degree candidates must meet the requirements of the specific program of study in which they are matriculated. They must also have successfully completed a minimum of 50% of their semester credits at Finger Lakes Community College and earned a cumulative Grade Point Average of 2.0 or above.

Graduation with Honor

Candidates for a degree or certificate who complete their requirements with a final cumulative Grade Point Average of 3.5 or higher will be considered honor graduates. Those achieving a final cumulative Grade Point Average of 3.8 or higher will be graduated with high honor. Notation of the honor received will be made on the graduate’s diploma.

Transfer Opportunities

An element of the Finger Lakes Community College mission is to prepare students for transfer to four-year colleges and universities to continue their studies toward a baccalaureate degree. Finger Lakes Community College has established agreements with public and private four-year institutions to facilitate transfer of students once the associate degree is obtained. These agreements enable students to complete an Associates in Arts (A.A.), Associates in Science (A.S.) and sometimes and Associates in Applied Science (A.A.S.) degree program and transfer to a four-year College or University and reasonably complete a Bachelor's degree in four semesters of full time study.

Agreements are subject to change and updates are in progress due to changes in the program requirements for many Finger Lakes Community College degrees; students are encouraged to work closely with the four-year institution of their choice. Up to date agreement information can be found online at www.flcc.edu/offices/transfer/search.cfm.

Two types of transfer agreements currently exist at Finger Lakes Community College:

- Joint Admissions Agreements
- Transfer Articulation Agreements

Joint Admissions Agreements

Joint Admissions Agreements enable entering, first-time freshmen to earn admission to Finger Lakes Community College and certain four-year colleges and universities at the same time. Students completing an Associate in Arts (A.A.) or Associate in Science (A.S.) degree program are generally eligible to participate in a joint admissions agreement. Students participating in a joint admissions program will transfer with full junior status, usually will not have to submit a transfer application, and may receive early registration privileges at that four-year college. Students should indicate their interest in joint admissions when applying to FLCC. Certain restrictions may apply to the joint admissions programs. Consult with a transfer coordinator in Academic Advising, Career and Transfer Services.

Agreements are subject to change and updates are in progress due to changes in the program requirements for many Finger Lakes Community College degrees; students are encouraged to work closely with the four-year institution of their choice. Up to date agreement information and the Joint Admissions Application can be found online at www.flcc.edu/offices/transfer/search.cfm. Finger Lakes Community College has Joint Admissions Agreements with the following:

- SUNY Buffalo State
- SUNY College at Brockport
- SUNY Geneseo
- Roberts Wesleyan College
- St. John Fisher College
- University of Rochester School of Nursing

Transfer Articulation Agreements

Transfer Articulation Agreements are held with a number of New York State and non-New York State public and private colleges and universities. These agreements enable students to complete an Associate in Arts (A.A.), Associate in Science (A.S.), and sometimes an Associate in Applied Science (A.A.S.) degree program and transfer to a four-year college or university and reasonably complete a bachelor's degree in four semesters of full-time study.

Agreements are subject to change and updates are in progress due to changes in the program requirements for many Finger Lakes Community College degrees; students are encouraged to work closely with the four-year institution of their choice and consult with a transfer counselor in Academic Advising, Career and Transfer Services. Information on our agreements can be found at: <https://www.flcc.edu/offices/transfer/search>.

SUNY Transfer Guarantee

An opportunity to continue full-time study at a four-year State University college is guaranteed to all New York residents who transfer directly from a SUNY college with an AA or AS degree. The transfer guarantee becomes effective if you are denied admission at all of your SUNY four-year college choices.

To be eligible you must:

- File your application by March 1 for fall admission, and by October 1 for spring admission.
- Provide four-year campuses with an official two-year college transcript, showing three semesters of completed studies, by March 15 for fall admission, and by October 15 for spring admission.
- Complete all required supplemental application materials by April 15 for fall admission, and by November 15 for spring admission.

Although campus choice and academic program are not guaranteed, SUNY staff will work one-on-one with each Transfer Guarantee candidate to determine how the applicant can be best served given campuses and programs that are open and suitable.

Degrees

Associate in Arts (A.A.) and Associate in Science (A.S.) Degrees: accredited degree programs that can be completed in approximately two years of full-time study with a focus of study in either science-related or liberal arts-related areas. Designed to prepare graduates for transfer to four-year colleges and universities in pursuit of bachelor's degrees.

Associate in Applied Science (A.A.S.) Degree: an accredited degree program that can be completed in approximately two years of full-time study and is designed to prepare graduates for entry into the workforce by providing marketable job skills and experience.

Certificate Program: an accredited program designed to prepare graduates with entry-level skills in a specific professional field. A certificate can typically be completed in one year of full-time study. Credited courses taken for an FLCC certificate program may apply toward degree requirements should the graduate choose to continue his or her education after earning a certificate.

Elective Listings

Courses from the humanities, social science, and natural science and mathematics categories fulfill liberal arts requirements.

Humanities

Courses beginning with the following prefixes fulfill humanities requirements:

ART	Art
ASL	American Sign Language
CIN	Cinema
COM	Communications
ENG	English
FRN	French
HON	Honors*
HUM	Humanities
MUS	Music
PHL	Philosophy
SPN	Spanish
THE	Theatre

* *Honors courses may be given Liberal Arts credit in the area appropriate to the topic of course.*

Natural Science and Mathematics

Courses beginning with the following prefixes fulfill natural science and mathematics requirements:

BIO	Biology
CHM	Chemistry
MAT	Mathematics
NS	Nutritional Science
PHY	Physics
SCI	Science

Social Science

Courses beginning with the following prefixes fulfill social science requirements:

ANT	Anthropology
ECO	Economics
HIS	History
POL	Political Science
PSY	Psychology
SOC	Sociology
SSC	Social Science

General Electives

General Elective requirement can be fulfilled by any course from any prefix except 0-level imputed credit courses.

Courses for Transfer to SUNY Colleges and Universities

Students transferring to SUNY four-year institutions are encouraged to successfully complete courses in Basic Communication, Mathematics, at least five of the other eight SUNY General Education Requirement knowledge and skills areas, and the two SUNY General Education Requirement competency areas. The two SUNY General Education Requirement competency areas of Critical Thinking (Reasoning) and Information Management are infused throughout the SUNY General Education program. For optimal transfer students should complete 30 credit hours of general education prior to transferring to an upper level SUNY institution.

Knowledge and skill areas may also be met by some Advanced Placement (AP), CLEP, International Baccalaureate, or Dantes Examinations. See the Registrar for more information. Students who complete three years of sequential math in high school and score 85 or higher for the third year have met this requirement.

Knowledge and Skill Areas

1. Basic Communication (one course from Written Communication and one from Oral Communication is required)

Written Communication

- COM/ENG 125 Healthcare Communications
- ENG 101 Composition I
- ENG 103 Composition II
- ENG 113 Technical Ethics

Oral Communication

- COM 100 Human Communication
- COM 110 Public Speaking
- COM 115 Interpersonal Communication
- COM/ENG 125 Healthcare Communication

2. Mathematics

- MAT 101 Mathematics for Liberal Arts
- MAT 110 Mathematics of Money
- MAT 121 Introductory Statistics I
- MAT 122 Introductory Statistics II
- MAT 135 Mathematics in Context
- MAT 145 Survey of Functions I
- MAT 152 Pre-Calculus (Survey of Functions II)

- MAT 160 Introduction to Discrete Mathematics
- MAT 165 Introductions to Data Science
- MAT 200 Statistics
- MAT 220 Discrete Mathematics
- MAT 271 Calculus I
- MAT 272 Calculus II
- MAT 280 Mathematics for Elementary School Teachers II

3. Natural Sciences

- BIO 115 Human Biology
- BIO 118 Contemporary Biology I
- BIO 119 Contemporary Biology II
- BIO 121 General Biology I
- BIO 122 General Biology II
- BIO 125 Foundations of Life Science
- BIO 171 Human Anatomy and Physiology I
- BIO 172 Human Anatomy and Physiology II
- CHM 121 General Chemistry I
- CHM 122 General Chemistry II
- NS 115 Introduction to Nutrition
- NS 210 Nutrition in the Life Cycle
- NS 220 Sports Nutrition
- PHY 101 Introduction to Physics
- PHY 105 Physics of Sound
- PHY 118 College Physics I
- PHY 119 College Physics II
- PHY 151 University Physics I
- PHY 152 University Physics II

4. Social Sciences

- ANT 110 Human Prehistory
- ANT 111 Cultural Anthropology
- ECO 210 Principles of Macroeconomics
- ECO 211 Principles of Microeconomics
- POL 100 American Government
- POL 110 State and Local Government
- PSY 100 Introduction to Psychology
- PSY 205 Adolescent Psychology
- PSY 225 Child Psychology
- SOC 100 Introduction to Sociology

5. American History

- HIS 110 Early United States History
- HIS 111 Modern United States History

6. Western Civilization

- ARC 110 Architecture History: Prehistory – 1880
- ARC 120 Architecture History: 1880 - Present
- HIS 100 Early Western Civilization: Greeks to the Renaissance
- HIS 101 Modern Western Civilization: Enlightenment to the Cold War
- HIS 261 War and Society in the Age of Total War: WWI and WWII
- HIS 265 The Black Death and Beyond: How Disease Has Changed History

7. Other World Civilizations

- ANT 111 Cultural Anthropology
- ANT 200 Comparative Cultures
- ANT/HIS 206 North American Indian History and Cultures
- HIS 112 Early World Civilizations
- HIS 122 Modern World History
- HIS 261 War and Society in the Age of Total War: WWI and WWII
- THE 220 Theatre History: Greeks through the 18th Century
- THE 225 Theatre History: Romantics to Contemporary

8. Humanities

- ARC 110 Architecture History: Prehistory - 1880
- ARC 120 Architecture History: 1880 – Present
- ART 100 Art History: Prehistory to Middle Ages
- ART 101 Art History: Renaissance to Modern Art
- CIN 110 Cinema of Spain
- CIN 115 Latin American Cinema
- CIN 120 Cinema of France
- CIN 125 Francophone Cinema
- ENG 102 Introduction to Reading Literature
- ENG 110 Introduction to Creative Writing
- ENG 113 Technical Ethics
- ENG 200 Children's Literature: Pre-readers to Middle Grade
- ENG 209 Children's Literature: Middle Grade to Young Adult
- ENG 213 Dramatic Literature
- HCS 270 Ethical Considerations in Healthcare
- MUS 106 Music Theory I
- MUS 106L Music Theory I Lab
- PHL 101 Introduction to Philosophy
- PHL 205 Philosophy, Sex, and Gender
- THE 210 Dramatic Literature
- THE 220 Theatre History: Greeks through the 18th Century
- THE 225 Theatre History: Romantics to Contemporary

9. The Arts

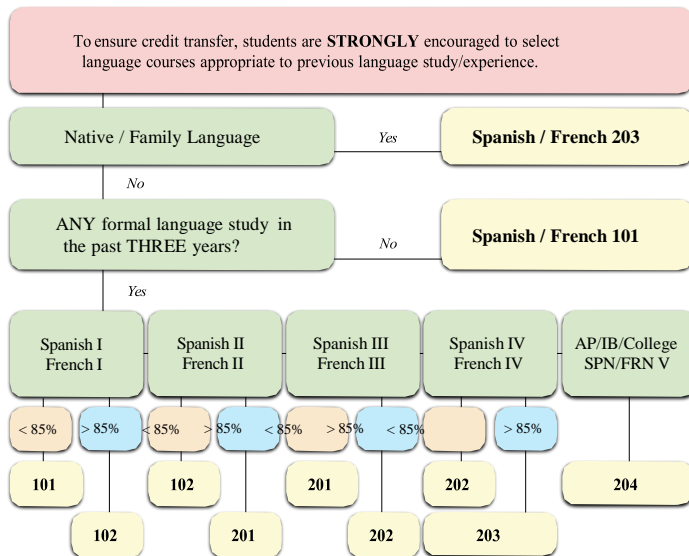
- ART 100 Art History Prehistory to Middle Ages
- ART 101 Art History Renaissance to Modern Art
- ART 102 Foundation Drawing I
- ART 104 Design I
- ART 110 Digital Photography
- ART 115 Computer Imaging
- ART 125 A Global Introduction to Art
- ART 213 History in American Art
- CIN 260 Cinema as Art Form: Silent Era
- CIN 261 Cinema as Art Form: Sound Era
- CIN 263 Minority Groups in Film
- CIN 264 Global Cinema
- DIG 110 Digital Photography
- ENG 110 Introduction to Creative Writing
- ENG 213 Dramatic Literature
- ENG 225 Literary Journal Publishing
- ENG 231 Fiction Writing
- ENG 232 Creative Nonfiction Writing
- ENG 233 -Poetry Writing
- MUS 100 Music Appreciation
- MUS 105 Basic Musicianship
- MUS 111 Master Composer
- MUS 131 Piano
- MUS 132 Voice
- MUS 133 Trumpet
- MUS 134 Flute
- MUS 135 Classical Guitar
- MUS 136 Violin
- MUS 137 Saxophone
- MUS 138 Organ
- MUS 139 Bassoon
- MUS 145 Chamber Wind Ensemble
- MUS 146 Drumset
- MUS 148 Harp
- MUS 156 Jazz History
- MUS 159 Oboe
- MUS 160 Percussion

- MUS 161 French Horn
- MUS 162 String Bass
- MUS 163 Jazz Bass
- MUS 164 Trombone
- MUS 165 Clarinet
- MUS 166 Harpsichord
- MUS 167 Jazz Piano
- MUS 168 Jazz Guitar
- MUS 169 Jazz Voice
- MUS 170 Cello
- MUS 183 History of Rock Music
- THE 104 Introduction to Theatre
- THE 210 Dramatic Literature

10. World (Foreign) Language

- ASL 101 American Sign Language I
- ASL 102 American Sign Language II
- ASL 115 Conversational American Sign Language
- ASL 201 American Sign Language III
- ASL 202 American Sign Language IV
- FRN 101 French I
- FRN 102 French II
- FRN 201 French III
- FRN 202 French IV
- FRN 203 French V
- FRN 204 French VI
- SPN 101 Spanish I
- SPN 102 Spanish II
- SPN 201 Spanish III
- SPN 202 Spanish IV
- SPN 203 Spanish V
- SPN 204 Spanish VI

Note: Students who complete three years of sequential language in high school and score 85 or higher on the Regents B exam have met this requirement.



World Languages @ FLCC - BARBARA.KRUGER@FLCC.EDU - (585) 785-1309

Courses for Transfer to Non-SUNY Colleges and Universities

Students transferring to colleges other than SUNY should check with the institution to which they plan to transfer regarding recommended courses for transfer or consult any current articulation agreement with Finger Lakes Community College and the transfer colleges to ensure transfer at the junior level. Further questions regarding general education and transfer requirements should be discussed with an FLCC faculty or transfer advisor.

Learning Options

From the traditional to the online, learning options offered by Finger Lakes Community College may be tailored to meet the needs of students' individual learning styles and busy lifestyles.

Online Learning

Whether it is one class or an entire degree program, online learning lets you choose when, where and how you get your education. Students that are successful online learners possess motivation, discipline, time management skills, and are comfortable using a computer and the internet. Please note: there is an additional fee associated with online courses.

Benefits to Taking Online Classes

- Anytime, anywhere learning: Online access helps students overcome job, time, and geographic location obstacles.
- Independence and flexibility: Some learners find that online learning meets their learning style preference better than face-to-face courses.
- Dedicated, experienced instructors: Faculty that teach our online courses are the same faculty you would get if you took a who teach our face-to-face course.
- A proven solution: FLCC has been selected as one of the premiere online learning programs in NYS. As an OPEN SUNY Plus campus, our courses and degree programs have gone through a rigorous process of quality assurance.

Online Degree Programs

FLCC has several fully accredited degree programs offered completely online, including:

- A.A.S. Business - Accounting
- A.A.S. Business - Business Administration
- A.S. Business - Business Administration
- A.S. Computer Science

- A.S. Engineering Science
- A.S. Health Care Studies
- A.A.S. Hospitality and Tourism Management: Event and Tourism Management Track
- A.S. Kinesiology and Human Performance
- A.A. Liberal Arts and Sciences: General Studies Track
- A.S. Liberal Arts and Sciences: General Studies Track
- A.A.S. Networking and Cybersecurity
- A.S. Nutrition and Dietetics
- A.A.S. Paralegal and Legal Studies
- A.S. Psychology

FLCC has a fully accredited online certificate program:

- Paralegal
- Smart Systems Technology
- Teaching Assistant

The following degrees are at least 50% online. Call for current status 585.785.1733.

- A.A. American Sign Language
- A.A.S. Chemical Dependency Counseling
- A.S. Communications
- A.S. Computer Information Systems
- A.A.S. Criminal Justice
- Certificate Criminal Justice
- A.A.S. Culinary Arts
- Culinary Arts Certificate
- A.S. Fine Arts
- A.S. Game Programming and Design
- A.S. Human Services
- A.S. Liberal Arts and Sciences: French Track
- A.A.S. Marketing
- Viticulture Certificate

FLCC also has many more online degree programs currently in development.

Hybrid Learning

Hybrid courses offer the “best of both worlds” by combining face-to-face classroom instruction with online learning activities. In a typical hybrid course, students will attend class on campus for a limited amount of time during the semester and then complete additional coursework online through the campus course management system. Depending on the course, students might meet once a week or just a few times throughout the semester.

Synchronous Learning

The Synchronous Course Program at FLCC is ideal for students who prefer a face-to-face learning environment, but whose busy schedule or lack of transportation limit their ability to travel to the main Canandaigua campus. Each FLCC Campus Center is equipped with at least one Synchronous classroom where students can participate in live classes that occur between two or more FLCC Campus locations. The instructor teaches from one campus while student located at one of the other campuses benefit from the live face-to-face experience through use of Video Conferencing technology. Courses offered synchronously each semester are selected based on need and may include weekdays, evenings and Saturdays.

HyFlex Learning

Everyone's schedule is different. If you have competing priorities, making it to campus for every class may not be realistic. HyFlex takes advantage of emerging technologies, allowing you to choose—day by day—how, when, and where you "attend" class.

HyFlex is an instructional model which broadcasts and records classroom lectures as they take place, making accessibility and flexibility a reality for all students. Through this model, you can decide how and when you access a lecture.

For example, one week, you may attend class in-person on campus, and another, you can watch a live stream from the convenience of your home or a coffee shop. Then, on the following week, you might decide to catch the recorded version of the lecture on a quiet weekend morning. Also, since all lecture video recordings are available online, you can revisit lessons at any time to be prepared for all exams, papers, and projects.

Through FLCC's HyFlex learning model, the choice of how, when, and where you access your course is yours.

Degrees Awarded

Finger Lakes Community College is authorized by the Board of Regents of the University of the State of New York to grant the following degrees and certificates. Enrollment in other than registered or otherwise approved programs may jeopardize a student's eligibility for certain student aid awards.

The HEGIS (Higher Education General Information Survey) code is a Federal designation adopted by most states for codifying academic programs and disciplines.

Associate in Arts	HEGIS
American Sign Language	5599
Creative Writing.....	5610
Liberal Arts and Sciences: Childhood Education (Teacher Education Transfer).....	5608
Liberal Arts and Sciences: French Track.....	5649
Liberal Arts and Sciences: General Studies Track.....	5649
Liberal Arts and Sciences: Humanities Track.....	5649
Liberal Arts and Sciences: Literature Track.....	5649
Theatre Arts.....	5610
Associate in Science	HEGIS
Biotechnology.....	5604
Business – Business Administration	5004
Communications.....	5008
Computer Information Systems.....	5103
Computer Science	5101
Engineering Science	5609

Environmental Science (Biophysical Track)	5499
Fine Arts	5610
Game Programming and Design	5103
Health Care Studies	5299
Health Care Studies: Healthcare Track	5299
Health Care Studies: Health Science Track	5299
Health Care Studies: Public Health Management Track	5299
Kinesiology and Human Performance	5299.30
Liberal Arts and Sciences: General Studies Track	5649
Mathematics	5617
Music	5610
Music Recording Technology	5399
New Media	5012
Nutrition and Dietetics	5299
Physical Education and Exercise Science	5299.30
Psychology	5620
Sports Studies	5011.10

Associate in Applied Science HEGIS

Architectural Technology	5304
Business – Accounting	5002
Business – Business Administration	5004
Chemical Dependency Counseling	5506
Criminal Justice	5505
Culinary Arts	5404
Emergency Medical Technician–Paramedic	5299
Environmental Conservation Law Enforcement	5499
Fish and Wildlife Technology	5403
Graphic Design	5012
Horticulture	5402
Horticulture: Cannabis Biology and Cultivation Track	5402
Hospitality and Tourism Management	5010
Hospitality and Tourism Management: Event and Tourism Management Track	5011
Hospitality and Tourism Management: Food and Beverage Management Track	5010
Hospitality and Tourism Management: Hotel and Resort Management Track	5010
Marketing	5004
Mechanical Technology	5303
Natural Resources Conservation	5499
Networking and Cybersecurity	5103
Nursing	5208.10
Paralegal and Legal Studies	5099
Smart Systems Technologies	5314
Smart Systems Technologies: Advanced Manufacturing Track	5314
Viticulture and Wine Technology	5402

Viticulture and Wine Technology: Enology Track	5402
Viticulture and Wine Technology: Viticulture Track	5402
Web and Mobile Development	5103
Certificates.....	HEGIS
Corrections Officer.....	5505
Criminal Justice.....	5505
Culinary Arts.....	5404
Emergency Medical Technician – Paramedic	5299
Event and Tourism Management.....	5011
Food and Beverage Management	5010
Horticulture	5402
Hotel and Resort Management	5010
Natural Resources Conservation.....	5401
Paralegal.....	5099
Smart Systems Technologies	5314
Teaching Assistant	5503
Viticulture	5402

Departments

Department of Business

Gary Sloan, Chairperson

Anoop Bhargava

Trina Brizzee

Edward Einhouse

Edward Fitzpatrick

Tomás Gonzalez

Paula Knight

Timothy McGuinness

Christopher McNamara

Patrick Rae

Jamie Rotter

Richard Walsh

Department of Computing Sciences

William McLaughlin, Chairperson

David Ghidiu

Jeffrey Howard

Carolyn Krueger

Aaron Sullivan

Jonathan Weissman

Department of Environmental Conservation and Horticulture

John Foust '97, Chairperson

John Bateman

Stephen Connelly

Shannon Dermody

Alexandria Esposito

Shawn Kenaley

Gina Lee

Maura Sullivan

Patricia Thompson

Bernadine Ticonchuk '79

John VanNiel '83

Robert Wink '08

Department of Humanities

Maureen Maas-Feary, Chairperson

Delia Ackerman-Darnell

Charlotte Cline

Deborah Ferrell

Derrick Gentry

Margaret Gillio

Beth McCabe

Trista Merrill

Curtis Nehring Bliss

Jon Palzer

Christopher Parker

Jacqueline Tiermini

Lori Vail

Michael VanEtten

Mark Worrell

Department of Mathematics

Theresa Gauthier, Chairperson

Timothy Biehler

Daniel Groom

Charles Hoffman '01

Bryan Ingham

Sean Maley

Jodi Merklinger

Christine Quinn

Kimberly Wager

Department of Nursing

Heather Tillack '83, Chairperson

Joselyn Busch

Christine Hamilton

Tiffani Leyden

Lisa McAnn '93

Susan McCarthy

Kimberlie Noyes

Jane Rogalski

Katie Schaeffer

Shayna Turner-Johnson

Department of Health Science and Human Performance

Eric Marsh '98, Chairperson

Jessica Brinza

Jacob Hartman

Melissa Miller '04

Maria Petricola

Donna Spink '85

Jeremy Tiermini

Amy Warcup '89

Jeffrey Weaver

Department of Science and Technology

Jennifer Carney, Chairperson

Selim Araci

Amy Fenwick

Kelli Gauvin

Eileen Grooms

James Hewlett

H. Trevor Johnson-Steigelman

Clinton Krager

Robert Niger

Christine Parker

Carey Philips

Kelli Prior

Kathleen Riesenberger

John Riley

Matthew Rischpater

Prashanta Samanta

Michael Tiberio

Jennifer Zink

Department of Social Science

Joshua Heller, Chairperson

Robert Brown

Renaë Campbell

Linda Cunningham

Eric Duchess

Matthew Holla

Anthony Indorato

Edward Kennedy

F. Andrew Knapp

Joseph Mariconda

Mary Murphy '92

Nasim Sarvaiya

James Valenti

Vera Whisman

Department of Visual and Performing Arts

Beth Johnson, Chairperson

Richard Allen

Elizabeth Brownell

Richard Cook

Cathy Cushman

Mary Delmastro

Ines Draskovic

Paul Engin

Amy Flagler

Milton Johnson

Jeffrey Kidd '05

Lacey McKinney

Sarah Morgan

Barron Naegel

James Perri

Robert Potter '85

Eleanor Rideout

Kari Ripley '08

Barbara Senglaub '94

Geoffrey Smith

Warren White

Degree and Certificate Programs

FLCC Honors Studies

Self-reflective learning meets innovative teaching within and between the disciplines in Honors Studies at FLCC. Our seminars and activities foster an atmosphere of interconnection, inquiry, and curiosity where students become lifelong learners. Honors Studies Scholars develop the confidence to contribute to their local and global communities.

In service to this mission of Honors Studies, the learning outcomes focus on students being able to reflect on and evaluate the internal learning process, analyze external connections among their own learning experiences, and articulate the value of intellectual pursuit in a scholarly tradition.

Honors Studies is an augmented learning path open to all full- and part-time students regardless of academic program. To earn a graduation distinction, Honors Studies Scholars complete 15 points of Honors Studies work in tandem with their respective program of study and have an overall GPA of 3.25. At least 9 points must come from Honors Studies courses, and the remaining points can be earned in several different ways.

- Honors Studies Seminars – interdisciplinary courses that fulfill a Liberal Arts or General Elective. Recent Honors Studies Seminar courses include Women Who Kill, Love and Romance, Economics Through History, Games and Storytelling, the Development of Modern Horror, and Food and Identity in American Culture.
- Honors Studies in the Disciplines (HSD) – classes that are in the college catalog and part of a program or discipline that fulfill whatever program requirements that course would normally satisfy. Common Honors Studies in the Discipline courses include Composition I and II, College Mathematics, Master Composers, Gender and Women’s Studies, Perspectives on Tolkien, and Introduction to Sociology.
- Honors Studies Contracts – once a face to face Honors Studies course has been taken, a student can take any course for Honors Studies points through a contract with the Director, the instructor and themselves. Requires student to keep a reflective weekly journal and complete a self-reflective essay at the end of the semester. Honors Studies Contracts have been completed for such diverse courses as Addiction Counseling, General Chemistry, Foundational Drawing, Contemporary Biology, and Western Civilization.
- Honors Studies Events – Concurrent with, or after their first, Honors course, a student can earn Honors Studies points by attending specifically identified Honors Studies events on campus throughout a semester. Requires student to keep a reflective journal and complete a self-reflective essay at the end.

Although Honors Studies courses and activities are open to all students, individual students may be personally invited to partake as a result of scores on FLCC placement tests, at the recommendation of an advisor or an instructor, or based on performance in ENG 101. Interested students should contact Trista Merrill, Director of Honors Studies at Trista.Merrill@flec.edu or 585.785.1357.

American Sign Language

The Degree

Associate in Arts (A.A.)

The Program

As a student in the American Sign Language program, you'll gain a strong understanding of the language, culture, and community of Deaf people. You'll graduate with a deepened understanding of English and proficiency in more than one language. Our A.A. in American Sign Language program is designed for students who want to:

- Acquire a New Language.
- Transfer into a Baccalaureate program.
- Use ASL in the workplace.
- Gain a deeper understanding of the English language.
- Explore Deaf community and culture.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Express themselves clearly in various time frames on familiar topics as well as on some concrete social, academic, and professional topics.
- Identify the main idea and most supporting details in authentic communicative situations on a variety of topics of personal and general interest, as well as on some topics of global interest.
- Deliver detailed presentations, usually with accuracy and clarity, on a variety of topics and issues related to community interests and to some special fields of expertise.
- Explain key perspectives of the target culture within a comparative framework (i.e. comparing target culture to their own or to a series of cultures).
- Interpret and synthesize ideas and critical issues from a wide range of historical and contemporary cultural artifacts.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- ASL 101 American Sign Language I
- ASL 102 American Sign Language II

- ASL 201 American Sign Language III
- ASL 202 American Sign Language IV
- ASL 210 Capstone American Deaf Culture and Community
- FYS 110 First Year Seminar Humanities or FYS 120 First Year Seminar Social Science

General Education

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- ENG 103 Composition II
- HPE/THE 181 Mime** OR HPE 212 Health***
- PHL 103 Ethics
- PSY 100 Introduction to Psychology
- SOC 100 Introduction to Sociology
- 3 credits hours of SUNY General Education approved course in Basic Communications: Oral
- 3 credit hours of SUNY General Education approved course in Mathematics****
- 3 credit hours of SUNY General Education approved course in The Arts*****
- 9 credit hours of General Electives
- SUNY General Education approved course in Natural Sciences with a lab*
- SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations

Notes

*SUNY General Education approved course in Natural Sciences with a lab:

- BIO 115 Human Biology
- BIO 118 Contemporary Biology I
- BIO 119 Contemporary Biology II
- BIO 121 General Biology I
- BIO 122 General Biology II
- BIO 125 Foundations of Life Science
- BIO 171 Human Anatomy & Physiology I
- BIO 172 Human Anatomy & Physiology II
- CHM 121 General Chemistry I
- CHM 122 General Chemistry II
- PHY 101 Introduction to Physics
- PHY 105 Physics of Sound
- PHY 118 College Physics I
- PHY 119 College Physics II
- PHY 151 University Physics I
- PHY 152 University Physics II

** HPE/THE 181 Mime recommended for Interpreter Training Program transfer

*** HPE 212 Health recommended for Education/Nursing Program transfer

**** Mathematics, for Keuka transfer see advisor for approved mathematics class

***** The Arts, for Keuka transfer students the course must be a theory class- see advisor

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit Hours)

- ASL 101 American Sign Language I (3)
- ENG 101 Composition I (3)
- FYS 110 First Year Seminar Humanities (3) or FYS 120 First Year Seminar Social Science (3)
- SUNY General Education approved course in Basic Communication: Oral (3)
- HPE/THE 181 Mime** (3) OR HPE 212 Health*** (3)

Second Semester (16 Credit Hours)

- ASL 102 American Sign Language II (3)
- ENG 103 Composition II (3)
- PHL 103 Ethics (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- SUNY General Education approved course in Natural Sciences with a lab* (4)

Third Semester (18 Credit Hours)

- ASL 201 American Sign Language (3)
- ENG 102 Introduction to Reading Literature (3)
- PSY 100 Introduction to Psychology (3)
- SOC 100 Introduction to Sociology (3)
- SUNY General Education approved course in The Arts***** (3)
- SUNY General Education approved course in Mathematics***** (3)

Fourth Semester (15 Credit Hours)

- ASL 202 American Sign Language IV (3)
- ASL 210 Capstone American Deaf Culture and Community (3)
- General Elective (9)

Notes

*SUNY General Education approved course in Natural Sciences with a lab:

- BIO 115 Human Biology
- BIO 118 Contemporary Biology I
- BIO 119 Contemporary Biology II
- BIO 121 General Biology I
- BIO 122 General Biology II
- BIO 125 Foundations of Life Science
- BIO 171 Human Anatomy & Physiology I
- BIO 172 Human Anatomy & Physiology II
- CHM 121 General Chemistry I
- CHM 122 General Chemistry II
- PHY 101 Introduction to Physics
- PHY 105 Physics of Sound
- PHY 118 College Physics I
- PHY 119 College Physics II
- PHY 151 University Physics I
- PHY 152 University Physics II

** HPE/THE 181 Mime recommended for Interpreter Training Program transfer

*** HPE 212 Health recommended for Education/Nursing Program transfer

**** Mathematics, for Keuka transfer see advisor for approved mathematics class

***** The Arts, for Keuka transfer students the course must be a theory class- see advisor

Creative Writing

The Degree

Associate in Arts (A.A.)

The Program

Written communication is essential to all industries. From sales to science, messaging must be crafted and sent out into the world. As website visitors, social media followers, and cereal box readers, we interact with language everywhere. You love language, maybe enough to do it for a living.

As a Creative Writing student, you will choose where to focus your creative energy, whether it's on fiction, non-fiction, or poetry. To understand what makes a poem or story work, you will also take courses in classic and contemporary literature. They laid the groundwork that your creative output will continue.

Program Learning Outcomes

Upon completion of this degree program, students will have the ability to:

- Demonstrate proficiency in writing at the college level.
- Develop proficiency in oral discourse.
- Demonstrate proficiency in critical thinking.
- Develop the ability to use computer technology for research and production.
- Recognize the knowledge, skills, and values that will contribute to involvement in one's community.
- Identify the knowledge and skills necessary to live interdependently in a diverse, sustainable global community.
- Demonstrate the ability to comprehend, interpret, analyze, and evaluate college-level materials.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- ENG 103 Composition II
- ENG 110 Introduction to Creative Writing
- 3 credit hours of 200 level English Electives
- Two of the following:
 - ENG 225 Literary Journal Publishing

- ENG 231 Fiction Writing
- ENG 232 Creative Non-Fiction Writing
- ENG 233 Poetry Writing

General Education

- 3 credit hours of SUNY General Education approved course in Basic Communication: Oral
- 3 credit hours of Computer Science Electives
- 11 credit hours of General Electives
- 3 credit hours of SUNY General Education approved course in World (Foreign) Language
- 9 credit hours of SUNY General Education approved course in Mathematics or Natural Sciences (Must include at least one Mathematics and one Natural Sciences course)
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 3 credit hours of SUNY General Education approved course in The Arts
- 6 credit hours of Social Science Electives
- 2 credit hours of Health/Physical Education (HPE) Electives

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ENG 101 Composition I (3)
- ENG 110 Introduction to Creative Writing (3)
- Computer Science Electives (3)
- SUNY General Education approved course in Basic Communication: Oral (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- Health/Physical Education (HPE) Elective (1)

Second Semester (16 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- ENG 103 Composition II (3)
- One of the following:
 - ENG 225 Literary Journal Publishing (3)
 - ENG 231 Fiction Writing (3)

- ENG 232 Creative Non-Fiction Writing (3)
- ENG 233 Poetry Writing (3)
- SUNY General Education approved course in World (Foreign) Language (3)
- General Electives (3)
- Health/Physical Education (HPE) Electives (1)

Third Semester (16-17 Credit Hours)

- One of the following:
 - ENG 231 Fiction Writing (3)
 - ENG 232 Creative Non-Fiction (3)
 - ENG 233 Poetry Writing (3)
- SUNY General Education approved course in Natural Sciences (3)
- SUNY General Education approved course in The Arts (3)
- Social Science Electives (3)
- General Electives (4)

Fourth Semester (16-18 Credit Hours)

- SUNY General Education approved course in Mathematics (3-4)
- SUNY General Education approved course in Mathematics or Natural Sciences (3-4)
- 200 Level Humanities Elective (3)
- Social Science Electives (3)
- General Electives (4)

Liberal Arts and Sciences: Childhood Education(Teacher Education Transfer)

The Degree

Associate in Arts (A.A.)

The Program

The A.A. Childhood Education degree program introduces you to the historical, philosophical, and social foundations of education. It also:

- Explores the role of the teacher.
- Provides coursework in the structure and organization of schools.
- Offers the opportunity for structured school observations.
- Provides the liberal arts coursework necessary for students to transfer to childhood education programs at SUNY and private colleges.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Analyze the impact of educational forces (e.g. political, economic, philosophical, cultural) on society.
- Synthesize multidisciplinary information to problem solve within the field of education.
- Evaluate the variety of career possibilities within the field of education (e.g. Classroom Teacher, Special Area Teacher, Speech Therapist, Librarian, Counselor).

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- CSC 121 Technology in Education
- EDU 200 Foundations of American Education
- EDU 210 Schools in America: Organization and Issues
- FYS 135 First Year Seminar for Education Majors
- MAT 180 Mathematics for Elementary School Teachers I
- MAT 280 Mathematics for Elementary School Teachers II
- PSY 100 Introduction to Psychology
- PSY 225 Child Psychology

General Education

- COM 110 Public Speaking
- ENG 101 Composition I
- ENG 103 Composition II
- ENG Children's Literature (one of the following):
 - ENG 200 Children's Literature: Pre-readers to Middle Grade
 - ENG 209 Children's Literature: Middle Grade to Young Adult
- HPE 212 Health
- SOC 100 Introduction to Sociology
- SUNY General Education approved courses in World (Foreign) Language*
- SUNY General Education approved Lab Science Electives**
 - BIO 115 Human Biology
 - BIO 118 Contemporary Biology I
 - BIO 119 Contemporary Biology II
 - BIO 125 Foundations of Life Science
 - BIO 121 General Biology
 - BIO 122 General Biology II
 - CHM 121 General Chemistry I
 - CHM 122 General Chemistry II
 - PHY 118 College Physics I
 - PHY 119 College Physics II
 - PHY 151 University Physics I
 - PHY 152 University Physics II
- SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 6 credits General Electives

Notes

* Must be two courses in the same language. See advisor for World (Foreign) Language Requirements.

** Some bachelor's programs prefer a two-semester sequence in one Science area, some prefer one course in two different Science areas, e.g. one Chemistry and one Biology.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- COM 110 Public Speaking (3)
- ENG 101 Composition I (3)
- FYS 135 First Year Seminar for Education Majors (1)
- PSY 100 Introduction to Psychology (3)
- SOC 100 Introduction to Sociology (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)

Second Semester (16 Credit Hours)

- CSC 121 Technology in Education (3)
- ENG 103 Composition II (3)
- PSY 225 Child Psychology (3)
- SUNY General Education approved course in World (Foreign) Language (3)
- SUNY General Education approved Lab Science Elective (4)

Third Semester (16 Credit Hours)

- EDU 200 American Education (3)
- MAT 180 Mathematics for Elementary School Teachers I (3)
- SUNY General Education approved Lab Science Elective (4)
- SUNY General Education approved course in World (Foreign) Language (3)
- General Elective (3)

Fourth Semester (16 Credit Hours)

- EDU 210 Schools in America: Organization and Issues (4)
- ENG Children's Literature (one of the following):
 - ENG 200 Pre-readers to Middle Grade (3)
 - ENG 209 Children's Literature: Middle Grade to Young Adult (3)
- HPE 212 Health (3)
- MAT 280 Mathematics for Elementary School Teachers II (3)
- General Elective (3)

Liberal Arts and Sciences: French Track

The Degree

Associate in Arts (A.A.)

The Program

FLCC's French track provides you with skills that an increasing number of employers are seeking. It allows you to refine your oral and written communication skills in both English and French, to develop your ability to think critically, and to expand your global perspective.

Job candidates who can think critically and communicate well are most attractive to potential employers. The ability to do this in two different languages greatly increases that attraction. Some additional important skills you will acquire in the French track include:

- The ability to communicate with people from a wide variety of backgrounds and experiences.
- The adaptability to function in unfamiliar situations and environments.
- Increased cognitive processing and the ability to multitask.
- The ability to handle both difficult and abstract tasks.

Program Learning Outcomes

Upon completion of this degree program, students will have the ability to:

- Demonstrate proficiency in writing at the college level.
- Develop proficiency in oral discourse.
- Demonstrate proficiency in critical thinking.
- Develop the ability to use computer technology for research and production.
- Recognize the knowledge, skills, and values that will contribute to involvement in one's community.
- Identify the knowledge and skills necessary to live interdependently in a diverse, sustainable global community.
- Demonstrate the ability to comprehend, interpret, analyze, and evaluate college-level materials.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Humanities

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature

- ENG 103 Composition II
- COM 110 Public Speaking OR COM 115 Interpersonal Communication

Social Science

- ANT 111 Cultural Anthropology
- 3 credit hours of SUNY General Education approved course in Psychology or Sociology
- 3 credit hours of SUNY General Education approved course in Social Science
- 3 credit hours of SUNY General Education approved course in Western Civilization

Mathematics/Science

- 3 credit hours of SUNY General Education approved course in Mathematics
- 3 credit hours of SUNY General Education approved course in Science
- 3 credit hours of SUNY General Education approved course in Mathematics or Natural Sciences

Liberal Arts

- 12 credits of French (4 sequential courses) from the six course sequence below
 - FRN 101 French I
 - FRN 102 French II
 - FRN 201 French III
 - FRN 202 French IV
 - FRN 203 French V
 - FRN 204 French VI
- 3 credit hours of SUNY General Education approved course in The Arts

Health/Physical Education

- 1 credit hour of Culture-Based Movements course*
- 3 credit hours of Health/Physical Education (HPE) Electives**

General Electives

- 12 credit hours of General Electives***

Notes

* HPE 102 Basic Rhythms, HPE 114 Karate, HPE 162 T'ai Chi Chuan I, HPE 168 Zumba, HPE/THE 181 Mime, HPE 185 Fencing.

** HPE 214 Advanced First Aid, CPR and AED recommended.

*** CIN 120 Cinema of France, CIN 125 Francophone Cinema, HUM 220 Study Abroad in the French-speaking World is recommended.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ENG 101 Composition I (3)
- French course from sequence (3)
- SUNY General Education approved course in Western Civilization (3)
- SUNY General Education approved course in Mathematics (3)
- General Electives (3)
- Health/Physical Education (HPE) Elective (1)

Second Semester (15 Credit Hours)

- ENG 103 Composition II (3)
- French course from sequence (3)
- SUNY General Education approved course in Social Science (3)
- SUNY General Education approved course in Science (3)
- Health/Physical Education (HPE) Electives (3)

Third Semester (18 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- ANT 111 Cultural Anthropology (3)
- COM 110 Public Speaking (3) OR COM 115 Interpersonal Communication (3)
- French course from sequence (3)
- SUNY General Education approved course in Mathematics (3)
- General Electives (3)

Fourth Semester (15 Credit Hours)

- French course from sequence (3)
- SUNY General Education approved course in Psychology OR Sociology (3)
- SUNY General Education approved course in The Arts (3)
- General Electives (3)
- General Electives (3)

Liberal Arts and Sciences: General Studies Track

The Degree

Associate in Arts (A.A.)

The Program

Our A.A. Liberal Arts and Sciences: General Studies Track program offers you flexible course options that focus on the social sciences and the humanities. This track is the most general option, providing you the opportunity to pursue courses in a variety of subject areas. Whatever your areas of interest are, you can shape your schedule to feature classes that will get you ready to explore transfer opportunities in the following fields:

- Anthropology
- Economics
- History
- Philosophy
- Political Science
- Sociology
- Spanish

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Pose insightful and productive questions. Generate, evaluate, integrate, and cite compelling evidence to support reasonable conclusions.
- Express connections between disciplines with creativity and clarity.
- Take actionable steps to see tasks through to completion, both independently and collaboratively.
- Consider the impact of individual action on personal and community well-being, for example physical, environmental, social, occupational and fiscal well-being.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- ENG 103 Composition II
- PSY 100 Introduction to Psychology

- SOC 100 Introduction to Sociology OR ANT 111 Cultural Anthropology
- 3 credit hours of Computing Science Elective
- 3 credit hours of 200 level:
 - Anthropology
 - Economics
 - History
 - Political Science
 - Psychology
 - Sociology
 - Social Science Elective
- 3 credit hours of 200 level:
 - American Sign Language
 - Art
 - Cinema
 - Communication
 - English
 - French
 - Honors
 - Humanities
 - Music
 - Philosophy
 - Spanish
 - Theatre
- 6 credit hours/2 courses that fulfill 2 separate SUNY General Education categories of American History, Western Civilization or Other World Civilizations
- 3 credits SUNY General Education approved course in Basic Communication: Oral Communication
- 3 credits SUNY General Education approved course in Mathematics
- 3 credit hours SUNY General Education approved course in Natural Sciences
- 3 credit hours SUNY General Education approved course in The Arts
- 2 credit hours Health/Physical Education Elective

Track Courses

- 3 credits of SUNY General Education approved course in World (Foreign) Language or American Sign Language
- 6 credits of 200 level:
 - American Sign Language
 - Anthropology
 - Economics
 - English
 - History
 - Philosophy
 - Psychology
 - Sociology
 - World (Foreign) Language
- 3 credits of SUNY General Education approved course in Mathematics or Natural Sciences

- 3 credits of General Electives
- 1 credit of Health/Physical Education Elective
- 3 credits of an Approved First Year Experience Elective from the following:
 - FYS 110 First Year Seminar in Humanities
 - FYS 120 First Year Seminar in Social Science
 - FYS 130 First Year Seminar in Science

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters. When planning your schedule, you should consult with your advisor.

First Semester (16-17 Credit Hours)

- ANT 111 Cultural Anthropology (3) OR SOC 100 Introduction to Sociology (3)
- Computer Science (CSC) Elective (3)
- ENG 101 Composition I (3)
- FYS 110 First Year Seminar in Humanities or FYS 120 First Year Seminar in Social Science or FYS 130 First Year Seminar in Science
- Health/Physical Education (HPE) Elective (1)
- SUNY General Education approved course in Mathematics (3-4)

Second Semester (15-16 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- ENG 103 Composition II (3)
- PSY 100 Introduction to Psychology (3)
- SUNY General Education approved course in Natural Sciences (3-4)
- SUNY General Education approved course in Basic Communication: Oral Communication (3)

Third Semester (16-17 Credit Hours)

- 200 Level Course in any of the following disciplines (3):
 - American Sign Language
 - Art
 - Cinema
 - Communication
 - English
 - French
 - Honors
 - Humanities
 - Music
 - Philosophy
 - Spanish

- Theatre
- 200 Level Course (outside of those in the core) in any of the following disciplines (3):
 - American Sign Language
 - Anthropology
 - Economics
 - English
 - History
 - Philosophy
 - Psychology
 - Sociology
 - World (Foreign) Language
- Health/Physical Education (HPE) Elective (1)
- SUNY General Education approved course in World (Foreign) Language or American Sign Language (3)
- SUNY General Education approved course from one of the following categories (3):
 - American History
 - Western Civilization
 - Other World Civilization Elective
- SUNY General Education approved course in Mathematics or Natural Sciences (3-4)

Fourth Semester (16 Credit Hours)

- SUNY General Education approved course in The Arts (3)
- 200 Level Course in any of the following disciplines (3):
 - Anthropology
 - Economics
 - History
 - Political Science
 - Psychology
 - Sociology
 - Social Science
- 200 Level Course (outside of those in the core) in any of the following disciplines (3):
 - American Sign Language
 - Anthropology
 - Economics
 - English
 - History
 - Philosophy
 - Psychology
 - Sociology
 - World (Foreign) Language
- Health/Physical Education (HPE) Elective (1)
- SUNY General Education approved course from one of the following categories (3):
 - American History
 - Western Civilization
 - Other World Civilizations (different category than third semester)
- General Elective (3)

Liberal Arts and Sciences: Humanities Track

The Degree

Associate in Arts (A.A.)

The Program

A liberal arts degree provides you with the skills that are in demand in the workforce. The flexibility of the degree allows you to take your career path in directions that are diverse and exciting. The skills employers say they are seeking the most when hiring are written communication and critical thinking, both of which you will develop during your studies in FLCC's A.A. or A.S. liberal arts programs.

In the broadest sense, to embark on a study of the Humanities is to open you up to the essential question, what does it mean to be human? Academically, this pursuit leads you to study and explore the intellectual, artistic, cultural, and spiritual dimensions of the human experience. By taking courses in literature, writing, philosophy, film, world (foreign) languages, mythology, and the arts, you will gain an appreciation of these various disciplines, as well as a better understanding of how each field is uniquely situated to explore a facet of the story of being human.

At its core, to study the Humanities is to study the creative drive of the human spirit, our deep impulse to make meaning out of the world, and our endless attempts to communicate our understanding. Such an exploration will provide you with a well-rounded education and emphasize the broad-minded perspective necessary for success in your field of study or career path.

Program Learning Outcomes

Upon completion of this degree program, students will have the ability to:

- Demonstrate proficiency in writing at the college level.
- Develop proficiency in oral discourse.
- Demonstrate proficiency in critical thinking.
- Develop the ability to use computer technology for research and production.
- Recognize the knowledge, skills, and values that will contribute to involvement in one's community.
- Identify the knowledge and skills necessary to live interdependently in a diverse, sustainable global community.
- Demonstrate the ability to comprehend, interpret, analyze, and evaluate college-level materials.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Humanities

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- ENG 103 Composition II
- SUNY General Education approved course in Basic Communication: Oral
- 3 credit hours of SUNY General Education approved course in World (Foreign) Language

Social Science

- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 9 credit hours of Social Science Electives

Mathematics/Science

- 9 credit hours of SUNY General Education approved course in Mathematics or Natural Sciences

Liberal Arts

- 6 credit hours of Humanities Electives
- 3 credit hours of 200 level Humanities Electives
- 3 credit hours of SUNY General Education approved course in The Arts

Information Management

- 3 credit hours of Computer Science Electives

Health/Physical Education

- 2 credit hours of Health/Physical Education (HPE) Electives

General Electives

- 11 credit hours of General Electives

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ENG 101 Composition I (3)
- SUNY General Education approved course in Basic Communication: Oral (3)
- Computer Science Electives (3)
- Humanities Electives (3)
- SUNY General Education approved course in Mathematics (3)
- Health/Physical Education (PE) Elective (1)

Second Semester (16 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- ENG 103 Composition II (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- Social Science Electives (3)
- SUNY General Education approved course in Natural Sciences (3)
- Health/Physical Education (PE) Electives (1)

Third Semester (15 Credit Hours)

- SUNY General Education approved course in World (Foreign) Language (3)
- Humanities Electives (3)
- SUNY General Education approved course in Mathematics or Natural Sciences (3)
- Social Science Electives (3)
- SUNY General Education approved course in The Arts (3)

Fourth Semester (17 Credit Hours)

- 200 Level Humanities Elective (3)
- SUNY General Education approved course in Social Science (3)
- General Electives (3)
- General Electives (4)
- General Electives (4)

Liberal Arts and Sciences: Literature Track

The Degree

Associate in Arts (A.A.)

The Program

A liberal arts degree provides you with the skills that are in demand in the workforce. The flexibility of the degree allows you to take your career path in directions that are diverse and exciting. The skills employers say they are seeking the most when hiring are written communication and critical thinking, both of which you will develop during your studies in FLCC's A.A. or A.S. liberal arts programs.

From the classics to the contemporary, FLCC's Literature track builds the foundation for a career that centers on the written word. The close reading, critical analysis, reflection, ingenuity of thought and discussion, and emphasis on writing are marketable skills you will gain while pursuing your studies in Literature.

Program Learning Outcomes

Upon completion of this degree program, students will have the ability to:

- Demonstrate proficiency in writing at the college level.
- Develop proficiency in oral discourse.
- Demonstrate proficiency in critical thinking.
- Develop the ability to use computer technology for research and production.
- Recognize the knowledge, skills, and values that will contribute to involvement in one's community.
- Identify the knowledge and skills necessary to live interdependently in a diverse, sustainable global community.
- Demonstrate the ability to comprehend, interpret, analyze, and evaluate college-level materials.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Humanities

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- ENG 103 Composition II
- 3 credit hours of SUNY General Education approved course in Basic Communication: Oral
- 3 credit hours of SUNY General Education approved course in World (Foreign) Language

Social Science

- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 9 credit hours of Social Science Electives

Mathematics/Science

- 9 credit hours of SUNY General Education approved course in Mathematics or Natural Sciences (Must include at least one Mathematics and one Natural Sciences course)

Liberal Arts

- ENG 201 American Literature: 1620 - 1865 OR ENG 202 American Literature: 1865 - Present
- ENG 203 World Literature I OR ENG 204 World Literature II
- 3 credit hours of 200 level English Electives
- 3 credit hours of SUNY General Education approved course in The Arts

Information Management

- 3 credit hours of Computer Science Electives

Health/Physical Education

- 2 credit hours of Health/Physical Education (HPE) Electives

General Electives

- 11 credit hours of General Electives

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ENG 101 Composition I (3)
- 3 credit hours of SUNY General Education approved course in Basic Communication: Oral
- Computer Science Electives (3)
- SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations

- SUNY General Education approved course in Mathematics (3)
- Health/Physical Education (HPE) Elective (1)

Second Semester (16 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- ENG 103 Composition II (3)
- Social Science Electives (3)
- ENG 201 American Literature: 1620-1865 (3) OR ENG 202 American Literature: 1865 - Present (3)
- SUNY General Education approved course in Natural Sciences (3)
- Health/Physical Education (HPE) Electives (1)

Third Semester (15 Credit Hours)

- ENG 203 World Literature I (3) OR ENG 204 World Literature II (3)
- SUNY General Education approved course in World (Foreign) Language (3)
- SUNY General Education approved course in Mathematics or Natural Sciences (3)
- Social Science Electives (3)
- SUNY General Education approved course in The Arts (3)

Fourth Semester (17 Credit Hours)

- 200 Level Humanities Elective (3)
- Social Science Electives (3)
- General Electives (3)
- General Electives (4)
- General Electives (4)

Theatre Arts

The Degree

Associate in Arts (A.A.)

The Program

The Finger Lakes Community College A.A. in Theatre Arts program seeks to educate its students within the broad liberal arts framework in the art, craft, and discipline of theatre, by offering both classroom study and experiential production activities. The department serves the greater FLCC community through its productions and general education offerings; allowing students, faculty, staff and alumni to participate in theatre as practitioners and as audience members.

Program Learning Outcomes

Upon completion of this degree program, students will:

- Collaborate to devise, rehearse, perform, and realize theatrical works in a variety of styles and modalities.
- Analyze and interpret dramatic literature with special consideration for its historical and theatrical contexts.
- Apply critical thinking through writing at the college level.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 60-63 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- ENG 213/THE 210 Dramatic Literature
- HPE/THE 181 Mime: Physical Theatre and Movement
- THE 100 Introduction to Theatre Production/Technology
- THE 102 Acting I: Introduction to Acting
- THE 115 Backstage Practicum and/or THE 215 Scene Shop Practicum
- THE 220 Theatre History I: Greeks through the 18th Century
- THE 225 Theatre History II: Romantics to Contemporary
- 6 credit hours of Communications (COM) or Music (MUS) or Theatre (THE) Electives

General Education

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature or ENG 103 Composition II
- FYS 125 First Year Seminar in the Arts
- 3 credit hours of SUNY General Education approved Social Sciences Elective

- 3 credit hours of Social Sciences Elective (*American History or Western Civilization recommended*)
- 9-12 credit hours of SUNY General Education approved course in Mathematics or Natural Sciences (*must include at least one math and one natural sciences course*)
- SUNY General Education approved course in Basic Communication: Oral
- 3 credit hours of Computer Science Electives
- 3 credit hours General Electives

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit Hours)

- ENG 101 Composition I (3)
- FYS 125 First Year Seminar in the Arts (3)
- THE 100 Introduction to Theatre Production Technology (3)
- THE 102 Acting I: Introduction to Acting (3)
- CSC Elective (3)

Second Semester (16-17 Credit Hours)

- ENG 102 Introduction to Reading Literature OR ENG 103 Composition II (3)
- THE 220 Theatre History I: Greeks through the 18th Century (3)
- SUNY General Education approved course in Mathematics OR Natural Sciences* (3-4)
- SUNY General Education approved course in Basic Communication: Oral (3)
- Communication/Music/Theatre Elective (3)
- THE 115 Backstage Practicum or THE 215 Scene Shop Practicum (1)

Third Semester (13-14 Credit Hours)

- SUNY General Education approved course in Mathematics or Natural Sciences* (3-4)
- SUNY General Education approved course in Social Sciences (3)
- THE 115 Backstage Practicum OR THE 215 Scene Shop Practicum (1)
- THE 225 Theatre History II: Romantics to Contemporary (3)
- HPE/THE 181 Mime: Physical Theatre and Movement (3)

Fourth Semester (16-17 Credit Hours)

- ENG 213/THE 210 Dramatic Literature (3)
- Communication/Music/Theatre Elective (3)
- SUNY General Education approved Mathematics OR Natural Sciences Elective* (3)
- Social Sciences Elective** (3)
- General Elective (3)
- THE 115 Backstage Practicum or THE 215 Scene Shop Practicum (1)

NOTES:* Must include at least one math and one natural sciences course.

** American History or Western Civilization recommended.

Biotechnology

The Degree

Associate in Science (A.S.)

The Program

The biotech field is diverse, and this degree program equips you with an introduction to biofuels, genetically modified foods, biomanufacturing, cell and tissue culture, drug development and design, protein expression and purification, and recombinant DNA technology. Lead the change you wish to see with an A.S. in Biotechnology from FLCC!

When you complete this program, you'll be prepared to continue your studies in biotechnology, biology, biochemistry, or biomanufacturing. Some grads choose to explore the job market after graduation, landing positions as technicians in research or quality control.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Demonstrate proficiency in workplace "soft skills" including an industry acceptable level of technical writing and oral communication.
- Demonstrate an ability to work on collaborative teams.
- Demonstrate an ability to perform basic laboratory procedures, including the ability to select and utilize appropriate resources, supplies, and instrumentation to solve problems within a laboratory environment.
- Demonstrate proficiency in critical advanced laboratory skills required for employment in the biotechnology industry.
- Demonstrate a basic understanding of the biotechnology industry.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Humanities

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature or ENG 103 Composition II
- COM 110 Public Speaking

Social Science

- 3 credit hours of History (HIS) Electives
- 6 credit hours of Social Science Electives

Mathematics

- MAT 152 Pre-Calculus (Survey of Functions II)
- MAT 271 Calculus I

Science

- BIO 121 General Biology I
- BIO 122 General Biology II
- BIO 222 Cell Biology
- BIO 230 Microbiology
- BIO 240 Principles of Genetics
- BIO 241 Principles of Genetics Lab
- BIO 283 Electrophoresis
- BIO 286 Cell and Tissue Culture
- BIO 287 Introduction to Biomanufacturing I
- BIO 288 Introduction to Biomanufacturing II
- CHM 121 General Chemistry I
- CHM 122 General Chemistry II

Information Management

- CSC 134 Core Word
- CSC 135 Core Excel
- CSC 136 Power Point

Health/Physical Education

- 2 credit hours of Health/Physical Education (HPE) Electives

General Electives

- 3 credit hours of approved electives. (See sample schedule.)

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit Hours)

- ENG 101 Composition I (3)
- BIO 121 General Biology I (4)
- CHM 121 General Chemistry I (4)
- MAT 152 Pre-Calculus (Survey of Functions II) (3)
- CSC 134 Core Word (1)
- CSC 135 Core Excel (1)
- CSC 136 PowerPoint (1)

Second Semester (19 Credit Hours)

- ENG 102 Introduction to Reading Literature (3) or ENG 103 Composition II (3)
- BIO 122 General Biology II (4)
- BIO 240 Principles of Genetics (3)
- BIO 241 Laboratory in Genetics (1)
- CHM 122 General Chemistry II (4)
- MAT 271 Calculus I (4)

Third Semester (15-18 Credit Hours)

- BIO 222 Introduction to Cell Biology (3)
- BIO 230 Microbiology (4)
- BIO 283 Electrophoresis (1)
- BIO 287 Introduction to Biomanufacturing I (1)
- History (HIS) Elective (3)
- General Elective* (2-5)
- Health/Physical Education (HPE) Elective (1)

Fourth Semester (13-17 Credit Hours)

- COM 110 Public Speaking (3)
- BIO 286 Cell and Tissue Culture (1)
- BIO 288 Introduction to Biomanufacturing II (1)
- Social Science Electives** (6)
- Health/Physical Education (HPE) Elective*** (1)
- General Elective**** (1-5)

Notes

* In the third semester, it is strongly recommended that students take CHM 211 Organic Chemistry I if planning to transfer to a four-year institution for biotechnology or biosciences.

** In the fourth semester, students must complete one Social Science course that meets one of the following three competencies not met by the History (HIS) Elective: US History, Western Civilization, or Other World/Non-Western Civilization.

*** In the fourth semester, it is recommended that students take HPE 214 Advanced First Aid, CPR and AED if planning to enter the job market.

**** In the fourth semester, it is strongly recommended that students take CHM 212 Organic Chemistry II if planning to transfer to a four-year institution for biotechnology or biosciences.

Business - Business Administration

The Degree

Associate in Science (A.S.)

The Program

An A.S. in Business Administration will prepare you for transfer into a bachelor's program. Your FLCC education will provide a strong core curriculum in business, from the basics of financial and managerial accounting to gaining knowledge on marketing procedures and practices.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Students will exhibit an understanding of business knowledge as it relates to global issues.
- Students will utilize technology to organize and interpret business data.
- Students will compare and contrast the different tools used to communicate financial health.
- Students will examine the legal and ethical standards needed to succeed in the global marketplace.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Core Requirements

- ACC 101 Principles of Financial Accounting
- ACC 102 Principles of Managerial Accounting
- BUS 120 Introduction to Business
- BUS 123 Business Communications
- BUS 222 Marketing
- BUS 227 Business Law
- BUS 265 A.S. Business Administration Capstone
- 3 credits Business Elective
- ECO 210 Principles of Macroeconomics
- ECO 211 Principles of Microeconomics

General Education

- CSC 135 Core Excel
- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- 3 credit hours of SUNY General Education approved course in Basic Communication: Oral
- HIS 100 Early Western Civilization: Greeks to the Renaissance or HIS 101 Modern Western Civilization: Enlightenment to the Cold War
- HIS 110 Early United States History or HIS 111 Modern United States History
- MAT 152 Pre-Calculus (Survey of Functions II) or higher
- MAT 200 Statistics
- 8 credits Lab Science Electives*
- 1 credit HPE Elective
- 3 credits General Electives

Notes

* BIO 115 Human Biology, BIO 118 Contemporary Biology I, BIO 119 Contemporary Biology II, BIO 121 General Biology I, BIO 122 General Biology II, BIO 171 Human Anatomy and Physiology I, BIO 172 Human Anatomy and Physiology II, CHM 121 General Chemistry I, CHM 122 General Chemistry II, PHY 105 Physics of Sound, PHY 118 College Physics I, PHY 119 College Physics II, PHY 151 University Physics I, or PHY 152 University Physics II

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ACC 101 Principles of Financial Accounting (4)
- BUS 120 Introduction to Business (3)
- ENG 101 Composition I (3)
- SUNY General Education approved course in Basic Communication: Oral (3)
- General Elective (3)

Second Semester (15 Credit Hours)

- ACC 102 Principles of Managerial Accounting (4)
- CSC 135 Core excel (1)
- ENG 102 Introduction to Reading Literature (3)
- HIS 110 Early United States History or HIS 111 Modern United States History (3)
- MAT 200 Statistics (3)
- Health/Physical Education (HPE) Elective (1)

Third Semester (16 Credit Hours)

- BUS 123 Business Communications (3)
- ECO 210 Principles of Macroeconomics (3)
- HIS 100 Early Western Civilization: Greeks to the Renaissance or HIS 101 Modern Western Civilization: Enlightenment to the Cold War (3)
- MAT 152 Pre-Calculus (Survey of Functions II) (3)
- Lab Science Elective (4)

Fourth Semester (17 Credit Hours)

- BUS 222 Marketing (3)
- BUS 227 Business Law (3)
- BUS 265 A.S. Business Administration Capstone (1)
- Business Elective (3)
- ECO 211 Principles of Microeconomics (3)
- Lab Science Elective (4)

Communications

The Degree

Associate in Science (A.S.)

The Program

Communications is a constantly evolving field, where success requires ethical content generation, critical thinking, and media literacy. While this program is designed to prepare you for transfer into a communications field, you'll be surprised at the many job opportunities awaiting you upon graduation.

Your schedule will feature core classes in public speaking, video production, and mass communications, while working with cutting-edge technology and an experienced, supportive faculty. You'll also have the option to sink your teeth into a Digital Video Track.

Proficiency in public speaking, communications, self-confidence, and leadership is valued by employers across all industries. Upon graduation, you will be well-equipped to navigate interpersonal relationships, convey information, and continuously develop your communications skills. Most graduates continue their studies, but many find employment immediately after graduation.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Distinguish between the major concepts of interpersonal, group, mass, and public communication.
- Analyze an audience and form a message to effectively reach that audience.
- Form and present a message effectively using video, print, and the spoken word.
- Demonstrate basic journalistic practices and concepts of news writing used across media.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Humanities

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- COM/ENG 223 Media Writing
- 3 credit hours of Humanities Electives

Social Science

- 3 credit hours of History (HIS) Electives
- 9 credit hours of Social Science Electives

Mathematics/Science

- 9 credit hours of Mathematics Electives/Science Electives* (Must include at least one Mathematics and one Science course.)

Communications

- COM 110 Public Speaking
- COM 123 Video Production I
- COM 202 Introduction to Mass Communication

Choose one of the following Advisement Areas:

Digital Video Advisement Area

- BUS/COM 122 Video Advertising or COM/DIG 200 Audio for Film and Video
- COM 220 Digital Video Editing
- 3 credit hours of Business Elective

Communications Advisement Area

- COM 100 Human Communication
- 3 credit hours of Communications (COM) Electives
- 3 credit hours of General Electives

Theatre

- THE 102 Acting I

Business

- BUS 229 Advertising

Health/Physical Education Elective

- 3 credit hours of Health/Physical Education (HPE) Electives

General Elective

- 3 credit hours of General Electives*

Notes

* Dependent on Advisement Area

Sample Schedules

The schedules below show how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

Digital Video Advisement Area

First Semester (17 Credit Hours)

- ENG 101 Composition I (3)
- COM 123 Video Production I (4)
- THE 102 Acting (3)
- COM 110 Public Speaking (3)
- Social Science Elective (3)
- Health/Physical Education Elective (1)

Second Semester (16-17 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- Humanities Elective (3)
- BUS/COM 122 Video Advertising (3) OR COM/DIG 200 Audio for Film and Video (3)
- Science Elective (3-4)
- HIS Elective (3)
- Health/Physical Education Elective (1)

Third Semester (16-17 Credit Hours)

- BUS 229 Advertising (3)
- COM 202 Introduction to Mass Communication (3)
- COM/ENG 223 Media Writing (3)
- Mathematics Elective (3-4)
- Social Science Elective (3)
- Health/Physical Education Elective (1)

Fourth Semester (15-16 Credit Hours)

- BUS Elective (3)
- COM 220 Digital Video Editing (3)
- General Elective (3)
- Mathematics or Science Elective (3-4)
- Social Science Elective (3)

Communications Advisement Area

First Semester (17 Credit Hours)

- ENG 101 Composition I (3)
- COM 123 Video Production I (4)
- THE 102 Acting I (3)
- COM 100 Human Communication (3)
- Social Science Elective (3)
- Health/Physical Education Elective (1)

Second Semester (16-17 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- COM 110 Public Speaking (3)
- Humanities Elective (3)
- Science Elective (3-4)
- HIS Elective (3)
- Health/Physical Education Elective (1)

Third Semester (16-17 Credit Hours)

- BUS 229 Advertising (3)
- COM 202 Introduction to Mass Communication (3)
- COM/ENG 223 Media Writing (3)
- Mathematics Elective (3-4)
- Social Science Elective (3)
- Health/Physical Education Elective (1)

Fourth Semester (15-16 Credit Hours)

- COM Elective (3)
- Mathematics or Science Elective (3-4)
- Social Science Elective (3)
- General Elective (3)
- General Elective (3)

Computer Information Systems

The Degree

Associate in Science (A.S.)

The Program

Envision yourself building software for a company. Imagine a career designing computer information systems so that organizations can run more efficiently. With your A.S. in Computer Information Sciences, you'll be off and running towards an exciting career in this rapidly growing field.

This program takes an applied approach to learning, allowing you to explore many different areas of computer science. You'll work with information systems, develop new software, and build a repertoire of programming languages. This degree is tailored for analytical thinkers who share a strong interest in technology and data, and you'll graduate with the skills to get where you need to go.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Apply computational concepts and analytical thinking in the development of computer algorithms and solutions.
- Compare information systems and technologies used in organizations, explaining their impact on the success of organizations.
- Apply computer algorithms and solutions to solve theoretical problems in businesses and/or organizational operations.
- Analyze the social context of computing as it impacts individuals, organizations and society (including ethical, legal, security and global policy issues).

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63-64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- CSC 103 Computing Sciences Portal
- CSC 115 CS1: Introduction to Programming and Computational Thinking
- CSC 142 Fundamentals of Information Systems
- CSC 153 Introduction to Cloud Computing*
- CSC 190 CS2: Object-Oriented Software Development
- CSC 200 CS3: Data Structures
- CSC 253 Cloud Operations

General Education

- BIO 121 General Biology I and BIO 122 General Biology II OR CHM 121 General Chemistry I and CHM 122 General Chemistry II OR PHY 118 College Physics I and PHY 119 College Physics II OR PHY 151 University Physics I and PHY 152 University Physics II
- COM 100 Human Communication
- ENG 101 Composition I
- ENG 113 Technical Ethics
- MAT 152 Pre-Calculus (Survey of Functions II)
- MAT 200 Statistics
- MAT 160 Introduction to Discrete Mathematics or MAT 220 Discrete Mathematics for Computing
- SUNY General Education approved course in The Art or World (Foreign) Language
- SUNY General Education approved course in Social Science
- SUNY General Education approved course in American History, Western Civilization or Other World Civilizations
- 2 credits of Health/Physical Education (HPE) Elective

3-4 Credit Hours of Approved Electives from the following:

- ACC 101 Principles of Financial Accounting
- BUS 120 Introduction to Business
- BUS 124 Organizational Behavior
- CSC 243 Systems Analysis and Design
- CSC 249 Computer Architecture and Organization
- CSC 251 Applied Database Concepts
- CSC 260 Networking Technologies
- CSC 270 Principles of Information Security
- CSC 271 Hardware and Operating Systems

NOTE:

*CSC 142 Fundamentals of Information Systems is recommended prior to taking CSC 153 Introduction to Cloud Computing.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit Hours)

- ENG 101 Composition I (3)
- CSC 103 Computing Sciences Portal (3)
- CSC 115 CS1: Introduction to Programming and Computational Thinking (3)
- CSC 142 Fundamentals of Information Systems (3)
- Health/Physical Education (HPE) Elective(s) (2)
- MAT 200 Statistics (3)

Second Semester (16 Credit Hours)

- COM 100 Human Communication (3)
- CSC 153 Introduction to Cloud Computing (3)*
- CSC 190 CS2: Object-Oriented Software Development (4)
- ENG 113 Technical Ethics (3)
- MAT 152 Pre-Calculus (Survey of Functions II) (3)

Third Semester (14 Credit Hours)

- BIO 121 General Biology I or CHM 121 General Chemistry I or PHY 118 College Physics I or PHY 151 University Physics I (4)
- CSC 200 CS3: Data Structures (4)
- CSC 253 Cloud Operations (3)
- MAT 160 Introduction to Discrete Mathematics or MAT 220 Discrete Mathematics for Computing (3)

Fourth Semester (16-17 Credit Hours)

- Approved Elective (3-4)
- BIO 122 General Biology II or CHM 122 General Chemistry II or PHY 119 College Physics II or PHY 152 University Physics II (4)
- SUNY General Education approved course in Social Science (3)
- SUNY General Education approved course in one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- SUNY General Education approved course in The Arts or World (Foreign) Language (3)

NOTE: *CSC 142 Fundamentals of Information Systems is recommended prior to taking CSC 153 Introduction to Cloud Computing.

Computer Science

The Degree

Associate in Science (A.S.)

The Program

Pursue your passion for technology and apply it to an ever-changing career in computer science. Computer science professionals play a key role in developing technology and systems for many industries, including health care, business, and manufacturing.

This degree program is designed for those who have an interest in computers, hardware, or software. You'll complete coursework with a strong emphasis on advanced math with courses in calculus, discrete math, and physics. At FLCC and beyond, you will be well-equipped with important technical, analytical, and problem-solving skills.

Foundational courses in this program include:

- Introduction to Programming and Computational Thinking
- Object-Oriented Software Development
- Computer Architecture and Organization

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Apply computational concepts and analytical thinking in the development of computer algorithms and solutions.
- Develop and implement software solutions using multi-level programming languages.
- Discuss and reflect upon key ethical issues and global concerns in relation to the field of computer science, as well as the impact of technology upon individuals, organizations, and a global society.
- Work collaboratively and effectively within a team environment in order to create a computer solution or final project within a required time frame.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- CSC 103 Computing Sciences Portal
- CSC 115 CS1: Introduction to Programming and Computational Thinking
- CSC 190 CS2: Object-Oriented Software Development
- CSC 200 CS3: Data Structures
- CSC 249 Computer Architecture and Organization
- ENG 113 Technical Ethics

General Education

- COM 100 Human Communication
- ENG 101 Composition I
- MAT 220 Discrete Mathematics for Computing
- MAT 271 Calculus I
- MAT 272 Calculus II
- PHY 151 University Physics I
- PHY 152 University Physics II
- 3 credits SUNY General Education approved course in The Arts
- 3 credits SUNY General Education approved course in American History, Western Civilization or Other World Civilization
- 3 credits SUNY General Education approved course in Social Science
- 2 credits Health/Physical Education Electives

Electives

- 6 credit hours CSC 200-Level Computer Science Electives

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit hours)

- CSC 103 Computing Sciences Portal (3)
- CSC 115 CS1: Introduction to Programming and Computational Thinking (3)
- ENG 101 Composition I (3)
- MAT 271 Calculus I (4)
- SUNY General Education approved course in Social Science (3)

Second Semester (17 Credit hours)

- COM 100 Human Communication (3)
- CSC 190 CS2: Object-Oriented Software Development (4)
- MAT 272 Calculus II (4)

- ENG 113 Technical Ethics (3)
- SUNY General Education approved course in The Arts (3)

Third Semester (15 Credit hours)

- CSC 200 CS3: Data Structures (4)
- CSC 200-Level Elective (3)
- MAT 220 Discrete Mathematics for Computing (3)
- PHY 151 University Physics I (4)
- Health/Physical Education Elective (1)

Fourth Semester (15 Credit hours)

- CSC 249 Computer Architecture and Organization (4)
- CSC 200-Level Elective (3)
- PHY 152 University Physics II (4)
- SUNY General Education approved course in American History, Western Civilization or Other World Civilization (3)
- Health/Physical Education Elective (1)

Engineering Science

The Degree

Associate in Science (A.S.)

The Program

Our A.S. in Engineering Science program provides a core education in mathematics, science, and introductory engineering, and will prepare you to pursue a bachelor's degree in any engineering field.

The curriculum features courses in calculus, physics, chemistry, engineering graphics, computer programming, mechanics, thermodynamics, electric circuits, strength of materials, and engineering design.

After successfully completing this program, you'll be able to transfer to a four-year engineering school in junior standing for the engineering discipline of your choice.

In fact, our program is a member of the State University of New York Two Year Engineering Science Association (SUNY-TYESA), which creates a partnership between two-year engineering programs and four-year engineering schools, and facilitates a seamless transfer process.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Apply principles of math and physics tools to engineering topics.
- Solve foundational engineering problems related to mechanics and electricity.
- Integrate engineering skills of analysis, computing, and graphics into an applied engineering design project.
- Communicate the results of engineering problems effectively to peers and supervisors.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 67 credit hours with a grade point average of no lower than C (2.0). Additional hours are recommended depending upon engineering emphasis. For this degree program, you must successfully complete the following:

Program Core

- ESC 100 Introduction to Engineering
- ESC 105 Engineering Graphics
- ESC 170 Computing for Engineers
- ESC 211 Statics
- ESC 222 Electric Circuits
- ESC 240 Engineering Design

General Education

- CHM 121 General Chemistry I
- COM 100 Human Communication or COM 110 Public Speaking
- ENG 101 Composition I
- ENG 113 Technical Ethics
- MAT 271 Calculus I
- MAT 272 Calculus II
- MAT 273 Calculus III
- MAT 274 Differential Equations
- PHY 151 University Physics I
- PHY 152 University Physics II
- 3 credits SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 2 credits Health Physical Education Elective

Approved Electives

Choose six (6) credits from the following courses:

- BIO 103 Environmental Science
- BIO 121 General Biology I
- BIO 122 General Biology II
- CHM 122 General Chemistry II
- CHM 211 Organic Chemistry I
- CHM 212 Organic Chemistry II
- CSC 190 CS2: Object-oriented Software Development
- ESC 212 Dynamics
- ESC 213 Strength of Materials
- ESC 235 Thermodynamics
- MAT 220 Discrete Mathematics
- MAT 276 Linear Algebra
- PHY 253 Modern Physics
- TECH 123 Digital Electronics

Specializations

As a student of this degree program, you may select courses that reflect your interests and goals. The following specializations are suggested for students who plan to transfer to a four-year program in these areas. In many cases, the subject areas indicate sequences of courses that will prepare you to transfer into specific degree programs with full junior standing. Learn more about the transfer articulation agreements by visiting www.flcc.edu/transfer.

Recommended approved electives for various engineering fields which you may pursue upon transfer to a four-year institution:

Aerospace and Mechanical Engineering:

- ESC 212 Dynamics (3)
- ESC 213 Strength of Materials (3)

Biomedical Engineering:

- CHM 122 General Chemistry II (4)
- CHM 211 Organic Chemistry (5)

Chemical Engineering:

- CHM 122 General Chemistry II (4)
- CHM 211 Organic Chemistry (5)

Civil Engineering:

- CHM 122 General Chemistry II (4)
- ESC 213 Strength of Materials (3)

Computer Engineering:

- CS190 CS2: Object-oriented Software Development (3)
- TECH 123 Digital Electronics (3)

Electrical Engineering:

- TECH 123 Digital Electronics (3)

Environmental Engineering:

- BIO 121 General Biology I (4)
- CHM 122 General Chemistry II (4)
- ESC 213 Strength of Materials (3)

Industrial Engineering:

- CHM 122 General Chemistry II (4)
- ESC 211 Statics (3)

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. Examples are part-time students and students who may be required to take prerequisite math courses before taking MAT 271 - Calculus I. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit Hours)

- ENG 101 Composition I (3)
- CHM 121 General Chemistry I (4)
- ESC 100 Introduction to Engineering (3)
- ESC 105 Engineering Graphics (3)
- MAT 271 Calculus I (4)

Second Semester (17 Credit Hours)

- ESC 170 Computing for Engineers (3)
- MAT 272 Calculus II (4)
- ENG 113 Technical Ethics (3)
- PHY 151 University Physics I (4)
- Approved Elective (3)

Third Semester (17 Credit Hours)

- ESC 211 Statics (3)
- ESC 222 Electrical Circuits (4)
- MAT 274 Differential Equations (4)
- PHY 152 University Physics II (4)
- Health/Physical Education (HPE) Elective (2)

Fourth Semester (16 Credit Hours)

- COM 100 Human Communication or COM 110 Public Speaking (3)
- ESC 240 Engineering Design (3)
- MAT 273 Calculus III (4)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- Approved Elective (3)

The sequence above is only an example, and variations in the curriculum sequence are possible. Review the following specializations and consult with your advisor to learn about possible variations.

Specializations

As a student of this degree program, you may select courses that reflect your interests and goals. The following specializations are suggested for students who plan to transfer to a four-year program in these areas. In many cases, the subject areas indicate sequences of courses that will prepare you to transfer into specific degree programs with full junior standing. Learn more about the transfer articulation agreements by visiting www.flcc.edu/transfer.

Recommended approved electives for various engineering fields which you may pursue upon transfer to a four-year institution:

Aerospace and Mechanical Engineering:

- ESC 212 Dynamics (3)
- ESC 213 Strength of Materials (3)

Biomedical Engineering:

- CHM 122 General Chemistry II (4)
- CHM 211 Organic Chemistry (5)

Chemical Engineering:

- CHM 122 General Chemistry II (4)
- CHM 211 Organic Chemistry (5)

Civil Engineering:

- CHM 122 General Chemistry II (4)
- ESC 213 Strength of Materials (3)

Computer Engineering:

- CSC 190 CS2: Object-Oriented Software Development (3)
- TECH 123 Digital Electronics (3)

Electrical Engineering:

- TECH 123 Digital Electronics (3)

Environmental Engineering:

- BIO 121 General Biology I (4)
- CHM 122 General Chemistry II (4)

- ESC 213 Strength of Materials (3)

Industrial Engineering:

- CHM 122 General Chemistry II (4)
- ESC 211 Statics (3)

Environmental Science (Biophysical Track)

The Degree

Associate in Science (A.S.)

The Program

The A.S. Environmental Science degree program provides fundamental math and science preparation, knowledge of current environmental issues, and hands-on experience in natural resource management. Through classroom and field study, the program is designed to prepare you for entrance into a baccalaureate degree program.

Courses are offered in fish and wildlife, environmental conservation, terrestrial and aquatic ecology, field botany, limnology, wildlife management and other science and natural resource-related subjects.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Demonstrate standard best practices in field and laboratory research techniques, (e.g. scientific literature reviews, research design, equipment use, data collection and analysis, and technical writing).
- Identify predominant regional species (e.g. plant, insect, fish, mammal, bird) and their natural histories.
- Apply principles of natural and physical sciences (including mathematics) to interpret natural phenomena.
- Communicate (ecological) concepts/ideas via multiple modalities (e.g. technical writing, and/or oral presentation).

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 62-64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- BIO/CON 103 Environmental Science
- BIO 221/CON 202 Principles of Terrestrial and Aquatic Ecology
- BIO 221L/CON 202L Principles of Terrestrial and Aquatic Ecology Lab
- CON 100 First Year Experience in Conservation
- CON 190 Conservation Field Camp
- CON 102 Introduction to Fish and Wildlife OR CON 224 Dendrology and Field Botany OR HRT 280 Field Entomology with Integrated Pest Management

General Education

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- COM 110 Public Speaking
- BIO 121 General Biology I
- BIO 122 General Biology II
- CHM 121 General Chemistry I
- CHM 122 General Chemistry II
- MAT 121 Introductory Statistics OR MAT 200 Statistics*
- MAT 145 Survey of Functions I or higher
- HIS 100 Early Western Civilization: Greeks to the Renaissance OR HIS 101 Modern Western Civilization: Enlightenment to the Cold War OR HIS 122 Modern World History
- HIS 110 Early United States History OR HIS 111 Modern United States History
- 3 credit hours of SUNY General Education approved Social Science Electives**
- 4-5 credit hours of an Advisor approved Mathematics/Science Elective
- 3 credit hours of a 200 Level Conservation Elective

Advisor Approved Mathematics/Science Electives

- BIO 222 Introduction to Cell Biology
- BIO 230 Microbiology
- BIO 240 Principles of Genetics AND BIO 241 Laboratory in Genetics
- CHM 211 Organic Chemistry
- CHM 212 Organic Chemistry
- MAT 152 Pre-Calculus (Survey of Functions II)
- MAT 271 Calculus I
- MAT 272 Calculus II
- PHY 118 College Physics I
- PHY 119 College Physics II
- PHY 151 University Physics I
- PHY 152 University Physics II

Notes

*MAT 200 Statistics is recommended.

**ECO 210 Principles of Macroeconomics or ECO 211 Principles of Microeconomics is recommended.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit Hours)

- ENG 101 Composition I (3)
- BIO/CON 103 Environmental Science (4)
- BIO 121 General Biology I (4)
- CON 100 First Year Experience in Conservation (3)
- MAT 145 Survey of Functions I (3)

Second Semester (14-15 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- BIO 122 General Biology II (4)
- CON 102 Introduction to Fish and Wildlife (3) OR CON 224 Dendrology and Field Botany (3) OR HRT 280 Field Entomology with Integrated Pest Management (4)
- CHM 121 General Chemistry (4)

Summer Session (1 Credit Hours)

- CON 190 Conservation Field Camp (1)

Third Semester (14 Credit Hours)

- CHM 122 General Chemistry II (4)
- MAT 121 Introductory Statistics I (3) OR MAT 200 Statistics (3)*
- COM 110 Public Speaking (3)
- 200 level Conservation Elective (3)

Fourth Semester (14-15 Credit Hours)

- BIO 221/CON 202 Principles of Terrestrial and Aquatic Ecology (3)
- BIO 221L/CON 202L Principles of Terrestrial and Aquatic Ecology (1)
- Advisor Approved Mathematics or Science Elective (4-5)
- SUNY General Education approved Social Science Elective (3)*
- HIS 100 Early Western Civilization (3) OR HIS 101 Modern Western Civilization (3) OR HIS 122 Modern World History (3)

Advisor Approved Mathematics/Science Electives

- BIO 222 Introduction to Cell Biology
- BIO 230 Microbiology
- BIO 240 Principles of Genetics AND BIO 241 Laboratory in Genetics
- CHM 211 Organic Chemistry
- CHM 212 Organic Chemistry
- MAT 152 Pre-Calculus (Survey of Functions II)
- MAT 271 Calculus I

- MAT 272 Calculus II
- PHY 118 College Physics I
- PHY 119 College Physics II
- PHY 151 University Physics I
- PHY 152 University Physics II

Notes

*MAT 200 Statistics is recommended.

**ECO 210 Principles of Macroeconomics or ECO 211 Principles of Microeconomics is recommended.

Fine Arts

The Degree

Associate in Science (A.S.)

The Program

Earning your degree in Fine Arts gives you a balanced approach to theory and practice. Get introduced to various 2D and 3D disciplines and work from concept to finished product. Experience a course curriculum that provides you the opportunity to become proficient in studio art procedures and practices. Get a hands-on education that offers you unlimited opportunities to use our ceramic, sculpture, drawing, printmaking and painting studios. Generate your ideas and apply them to your artwork in a professional portfolio. Whatever your future goals are, you'll develop your artistic knowledge and prepare for employment and transfer opportunities when you study Fine Arts at FLCC.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

A.S. Fine Arts Program Learning Outcomes (PLO's):

1. Apply relevant materials, techniques and concepts to produce finished work.
2. Exhibit knowledge of the creative process from concept to finished product.
3. Evaluate visual concepts through constructive communication.
4. Demonstrate a basic proficiency of skills, craftsmanship and critical thinking through the production of a final portfolio.

AAS Graphic Design Program Learning Outcomes (PLO's):

1. Communicate visually using traditional and digital media.
2. Explore the execution of ideas from concept through to production, documenting with intentionality.
3. Constructively give and receive feedback as it pertains to successful creation of works of visual communication.
4. Model competency in craftsmanship, presentation, quality of rendering and the development (refinement) of a unique portfolio of work.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 62 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Humanities

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- COM 100 Human Communication OR COM 110 Public Speaking

Art

- ART 100 Art History: Prehistory to Middle Ages
- ART 101 Art History: Renaissance to Modern Art
- ART 102 Foundation Drawing I
- ART 103 Foundation Drawing II
- ART 104 Design I
- ART 105 Design II
- ART 109 Art Portal
- ART 251 Portfolio Prep
- 18 credit hours of approved Art Electives*

Social Science

- 3 credit hours of SUNY General Education approved course in Social Sciences
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations

Mathematics/Science

- 3 credit hours of SUNY General Education approved course in Mathematics
- 3 credit hours of SUNY General Education approved course in Natural Sciences

Health/Physical Education

- 2 credit hours of Health/Physical Education (HPE) Electives

Notes

Most upper level studio courses require ART 102 Foundation Drawing I and ART 104 Design as prerequisites.

* Approved Art Electives include:

- ART 106 Ceramics I
- ART 110 Digital Photography
- ART 200 Figure Drawing I
- ART 201 Figure Drawing II
- ART 202 Painting I
- ART 204 Painting II
- ART 205 Modeling and Sculpture I
- ART 206 Modeling and Sculpture II
- ART 209 Printmaking
- ART 212 Ceramics II
- ART 218 Advanced Digital Photography Methods
- ART 221 Advanced Drawing

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit Hours)

- ENG 101 Composition I (3)
- ART 100 Art History: Prehistory to Middle Ages (3)
- ART 102 Foundation Drawing I (3)
- ART 104 Design I (3)
- ART 109 Art Portal (2)
- Health/Physical Education Elective (1)

Second Semester (16 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- ART 101 Art History: Renaissance to Modern Art (3)
- ART 103 Foundation Drawing II (3)
- ART 105 Design II (3)
- SUNY General Education approved course in Natural Sciences (3)
- Health/Physical Education Elective (1)

Third Semester (16 Credit Hours)

- Approved Art Elective (3)
- Approved Art Elective (3)
- Approved Art Elective (3)
- COM 100 Human Communication (3) OR COM 110 Public Speaking (3)
- SUNY General Education approved course in Mathematics (3)
- ART 251 Portfolio Prep (1)

Fourth Semester (15 Credit Hours)

- Approved Art Elective (3)
- Approved Art Elective (3)
- Approved Art Elective (3)
- Social Science Elective (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilizations (3)

Game Programming & Design

The Degree

Associate in Science (A.S.)

The Program

Game designers thrive on creativity and imagination, and the gaming industry offers diverse job opportunities in programming, creative writing, computer science, and graphic design. If you have a passion for video games and see yourself designing them or being part of their creation, studying Game Programming and Design may be the right move for you.

This hands-on degree is tailored for aspiring game designers. Throughout your studies, you'll be part of a collaborative classroom environment. Each of your core classes utilize the most up-to-date industry equipment.

Program Learning Outcomes

Upon completion of this program, students will be able to:

- Collaborate with other students on large projects, working with multiple disciplines to develop games from design through production to release.
- Use problem solving and logic to create and implement algorithms and assets according to given limitations and requirements.
- Develop a detailed schedule of tasks, key design documents, and benchmarks with a constant reflection and review of tools and best practices.
- Develop and publish a professional portfolio on the World Wide Web.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- CSC 103 Computer Science Portal
- CSC 115 CS1: Introduction to Programming and Computational Thinking
- CSC 141 Introduction to the Game Industry
- CSC 190 CS2: Object-Oriented Software Design
- CSC 200 CS3: Data Structures
- CSC 241 Fundamentals of Game Design
- CSC 242 Introduction to 3D Computer Animation
- CSC 246 Game Programming Algorithms and Techniques
- CSC 255 Game Programming Team Capstone Project

General Education

- ART 115 Computer Imaging
- COM 100 Human Communication
- ENG 101 Composition I
- ENG 113 Technical Ethics
- MAT 152 Pre-Calculus (Survey of Functions II) (or higher)
- MAT 160 Introduction to Discrete Mathematics
- PHY 118 College Physics I
- PHY 119 College Physics II
- 2 credits Health/Physical Education Electives (HPE 122 Concepts of Wellness OR HPE 164 Stress Reduction Through Exercise, recommended)
- SUNY General Education approved course from one the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- SUNY General Education approved course in Social Science

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit hours)

- CSC 103 Computing Sciences Portal (3)
- CSC 115 CS1: Introduction to Programming and Computational Thinking (3)
- CSC 141 Introduction to the Game Industry (3)
- ENG 101 Composition I (3)
- MAT 152 Pre-Calculus (Survey of Functions II) (3)

Second Semester (16 Credit hours)

- ART 115 Computer Imaging (3)
- CSC 190 CS2: Object-Oriented Software Development (4)
- CSC 241 Fundamentals of Game Design (3)
- CSC 242 Introduction to 3D Computer Animation (3)
- ENG 113 Technical Ethics (3)

Third Semester (17 Credit hours)

- COM 100 Human Communication (3)
- CSC 200 CS3: Data Structures (4)
- CSC 246 Game Programming Algorithms and Techniques (3)
- MAT 160 Introduction to Discrete Mathematics (3)
- PHY 118 College Physics I (4)

Fourth Semester (15 Credit hours)

- CSC 255 Game Programming Team Capstone Project (3)
- Health/Physical Education Elective (HPE 122 or HPE 164 recommended) (2)
- PHY 119 College Physics II (4)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- SUNY General Education approved course in Social Science (3)

Health Care Studies: Healthcare Track

The Degree

Associate in Science (A.S.)

The Program

Have you ever wanted to serve on the frontlines of the healthcare industry, providing care to those who are ailing and helping to protect the public from new and emerging health crises? The A.S. in Health Care Studies: Healthcare Track is geared towards people like you; the aspiring nurses and health care professionals who wish to make the world a healthier place. You will prepare for transfer into a two- or four-year program in nursing or a related healthcare field.

This track provides a general education and liberal arts coursework that aligns with FLCC's A.A.S. Nursing program for a well-rounded foundation for further study. Take core classes in a variety of medical areas, including Medical Terminology, Anatomy & Physiology, and First Aid and Basic Life Support, along with electives that will allow you to explore your health care interests. Elective course options include Microbiology, Physiology of Exercise, Sports Nutrition, Human Services in Contemporary America, and Pathophysiology.

Program Learning Outcomes

Upon completion of the A.S. program, graduates will be able to:

- Evaluate personal career paths and interests related to employment in the healthcare industry.
- Apply critical reasoning to understand the skills necessary to function effectively in a wide variety of health care situations.
- Demonstrate a thorough knowledge of the humanities, social sciences, and natural sciences and apply this information to the understanding of the practice of health care, prevention, and wellness.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 62-64 semester hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- HCS 153 Career Opportunities in Health Care
- HCS 154 Medical Terminology
- HCS 270 Ethical Considerations in Health Care
- HPE 111 First Aid and Basic Life Support
- HPE 212 Health
- 1 credit of Health/Physical Education (HPE) Elective

General Education

- CSC 134 Core Word
- CSC 135 Core Excel
- ENG 101 Composition I
- ENG 103 Composition II
- NS 115 Introduction to Nutrition
- PSY 100 Introduction to Psychology
- PSY 200 Life Span Development
- SOC 100 Introduction to Sociology
- 3 credits SUNY General Education approved course in American Sign Language or Spanish
- 3 credits SUNY General Education approved course in Basic Communication: Oral
- 3 credits SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations

Healthcare Track

Choose three (3) courses from the following:

- BIO 110 Fundamentals of Human Anatomy and Physiology OR BIO 115 Human Biology
- BIO 118 Contemporary Biology I
- BIO 121 General Biology I
- BIO 122 General Biology II
- BIO 171 Human Anatomy & Physiology I
- BIO 172 Human Anatomy & Physiology II
- BIO 230 Microbiology
- CHM 121 General Chemistry I

Choose one (1) course from the following:

- MAT 110 Mathematics of Money
- MAT 121 Introductory Statistics I
- MAT 145 Survey of Functions I

Choose five - six (5-6) credits from the following courses:

- ACC 101 Principles of Financial Accounting
- ASL 101 American Sign Language I
- ASL 102 American Sign Language II

- BIO 230 Microbiology
- BUS 124 Organizational Behavior
- BUS 227 Business Law
- CDC 102 Concepts of Chemical Dependency
- EMCR 200 Emergency Medical Technician
- HPE 164 Stress Reduction through Exercise
- HPE 190 Care and Prevention of Athletic Injuries
- HPE 227 Physiology of Exercise
- HUS 102 Human Services in Contemporary America
- NS 210 Nutrition in the Life Cycle
- NS 220 Sports Nutrition
- NUR 223 Pathophysiology
- SPN 102 Spanish II
- SSC 150 Human Sexuality
- SSC 200 Introduction to Gerontology
- SUNY General Education approved course in The Arts
- SUNY General Education approved course in Natural Sciences

Note: Any student who successfully completes ENG 103 and a general education COM course may receive credit for ENG 125 upon acceptance to the FLCC Nursing program.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15-16 Credit Hours)

- ENG 101 Composition I (3)
- HCS 153 Career Opportunities in Health Care (3)
- HCS 154 Medical Terminology (3)
- PSY 100 Introduction to Psychology (3)
- Science Elective (1 of 3) (3-4)

Second Semester (16 Credit Hours)

- ENG 103 Composition II (3)
- PSY 200 Life Span Development (3)
- HPE 212 Health (3)
- Science Elective (2 of 3) (4)
- SOC 100 Introduction to Sociology (3)

Third Semester (15-16 Credit Hours)

- HPE Elective (1)
- NS 115 Introduction to Nutrition (3)
- SUNY General Education approved course in American Sign Language or Spanish (3)
- SUNY General Education approved course in Basic Communication: Oral (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- Approved Elective (2-3)

Fourth Semester (16 Credit Hours)

- CSC 134 Core Word (1)
- CSC 135 Core Excel (1)
- HCS 270 Ethical Considerations in Health Care (3)
- HPE 111 First Aid and Basic Life Support (1)
- Mathematics Elective (3)
- Science Elective (3 of 3) (4)
- Approved Elective (3)

Note: Any student who successfully completes ENG 103 and a general education COM course may receive credit for ENG 125 upon acceptance to the FLCC Nursing program.

Health Care Studies: Health Science Track

The Degree

Associate in Science (A.S.)

The Program

Our A.S. in Health Care Studies: Health Science Track prepares students for transfer opportunities into specific fields such as Cardiovascular Perfusion, Medical Imaging/Radiography, Medical Technology and Medical Biotechnology, Radiation Therapy, Respiratory, and more. You'll gain an understanding of how new and emerging technologies can generate better health outcomes, and how to lead the healthcare industry into the future.

Explore engaging courses in this track such as Career Opportunities in Health Care, Human Anatomy & Physiology, and Medical Terminology. You will also earn general education credits from courses such as Composition and Introduction to Psychology.

Program Learning Outcomes

Upon completion of the A.S. program, graduates will be able to:

- Evaluate personal career paths and interests related to employment in the healthcare industry.
- Apply critical reasoning to understand the skills necessary to function effectively in a wide variety of health care situations.
- Demonstrate a thorough knowledge of the humanities, social sciences, and natural sciences and apply this information to the understanding of the practice of health care, prevention, and wellness.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 62 semester hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- HCS 153 Career Opportunities in Health Care
- HCS 154 Medical Terminology
- HCS 270 Ethical Considerations in Health Care
- HPE 111 First Aid and Basic Life Support
- HPE 212 Health
- 1 credit of Health/Physical Education (HPE) Elective

General Education

- CSC 134 Core Word
- CSC 135 Core Excel
- ENG 101 Composition I
- ENG 103 Composition II
- NS 115 Introduction to Nutrition
- PSY 100 Introduction to Psychology
- PSY 200 Life Span Development
- SOC 100 Introduction to Sociology
- 3 credits SUNY General Education approved course in American Sign Language or Spanish
- 3 credits SUNY General Education approved course in Basic Communication: Oral
- 3 credits SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations

Health Science Track

- BIO 171 Human Anatomy & Physiology I
- BIO 172 Human Anatomy & Physiology II
- MAT 145 Survey of Functions I

Choose two (2) courses from the following:

- BIO 121 General Biology I
- BIO 122 General Biology II
- BIO 230 Microbiology
- CHM 121 General Chemistry I
- PHY 118 College Physics I
- PHY 119 College Physics II

Note: Any student who successfully completes ENG 103 and a general education COM course may receive credit for ENG 125 upon acceptance to the FLCC Nursing program.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- BIO 171 Anatomy and Physiology I (4)
- ENG 101 Composition I (3)

- HCS 153 Career Opportunities in Health Care (3)
- HCS 154 Medical Terminology (3)
- PSY 100 Introduction to Psychology (3)

Second Semester (16 Credit Hours)

- BIO 172 Anatomy and Physiology II (4)
- ENG 103 Composition II (3)
- PSY 200 Life Span Development (3)
- HPE 212 Health (3)
- SOC 100 Introduction to Sociology (3)

Third Semester (16 Credit Hours)

- NS 115 Introduction to Nutrition (3)
- Science Elective (1 of 2) (4)
- SUNY General Education approved course in American Sign Language or Spanish (3)
- SUNY General Education approved course in Basic Communication: Oral (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)

Fourth Semester (14 Credit Hours)

- CSC 134 Core Word (1)
 - CSC 135 Core Excel (1)
 - HCS 270 Ethical Considerations in Health Care (3)
 - HPE 111 First Aid and Basic Life Support (1)
 - HPE Elective (1)
 - MAT 145 Survey of Functions I (3)
 - Science Elective (2 of 2) (4)
- **Note:** Any student who successfully completes ENG 103 and a general education COM course may receive credit for ENG 125 upon acceptance to the FLCC Nursing program.

Health Care Studies: Public Health Management Track

The Degree

Associate in Science (A.S.)

The Program

Our A.S. in Health Care Studies: Public Health Management Track prepares students for careers informing patients about healthy practices in non-clinical settings. At FLCC, you'll learn the business aspect of the healthcare industry and how clear and empathetic communication can drive better health outcomes. Public health workers are more than educators — they also use their communication skills to bring about change in their community. If this sounds like you, you're in the right place.

Your coursework will include core classes that incorporate studies in both business and healthcare, such as Medical Terminology and Organizational Behavior, as well as electives that will allow you to further explore your interests in the field. Engaging course options include Career Opportunities in Health Care, Introduction to Nutrition, Principles of Financial Accounting, and Ethical Considerations in Health Care. You will also earn general education credits with courses such as Composition and Introduction to Psychology.

Program Learning Outcomes

Upon completion of the A.S. program, graduates will be able to:

- Evaluate personal career paths and interests related to employment in the healthcare industry.
- Apply critical reasoning to understand the skills necessary to function effectively in a wide variety of health care situations.
- Demonstrate a thorough knowledge of the humanities, social sciences, and natural sciences and apply this information to the understanding of the practice of health care, prevention, and wellness.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63 semester hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

HCS 153 Career Opportunities in Health Care

- HCS 154 Medical Terminology
- HCS 270 Ethical Considerations in Health Care
- HPE 111 First Aid and Basic Life Support
- HPE 212 Health
- 1 credit of Health/Physical Education (HPE) Elective

General Education

- CSC 134 Core Word
- CSC 135 Core Excel
- ENG 101 Composition I
- ENG 103 Composition II
- NS 115 Introduction to Nutrition
- PSY 100 Introduction to Psychology
- PSY 200 Life Span Development
- SOC 100 Introduction to Sociology
- 3 credits SUNY General Education approved course in American Sign Language or Spanish
- 3 credits SUNY General Education approved course in Basic Communication: Oral
- 3 credits SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations

Public Health Management Track

- ACC 101 Principles of Financial Accounting
- BUS 124 Organizational Behavior or BUS 227 Business Law
- ECO 211 Principles of Microeconomics
- MAT 121 Introductory Statistics I or MAT 145 Survey of Functions I
- SUNY General Education approved course in Natural Sciences
- 3 credits General Elective (CDC 102 Concepts of Chemical Dependency recommended)

Note: Any student who successfully completes ENG 103 and a general education COM course may receive credit for ENG 125 upon acceptance to the FLCC Nursing program.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15-16 Credit Hours)

- ENG 101 Composition I (3)
- HCS 153 Career Opportunities in Health Care (3)
- HCS 154 Medical Terminology (3)
- MAT 121 Introductory Statistics (3) or MAT 145 Survey of Functions I (3)
- PSY 100 Introduction to Psychology (3)

Second Semester (16 Credit Hours)

- ACC 101 Principles of Financial Accounting (4)
- ENG 103 Composition II (3)
- HPE 212 Health (3)
- PSY 200 Life Span Development (3)
- SOC 100 Introduction to Sociology (3)

Third Semester (15-16 Credit Hours)

- ECO 211 Principles of Microeconomics (3)
- NS 115 Introduction to Nutrition (3)
- SUNY General Education approved course in Natural Sciences (3-4)
- SUNY General Education approved course in Basic Communication: Oral (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)

Fourth Semester (16 Credit Hours)

- BUS 124 Organizational Behavior (3) or BUS 227 Business Law (3)
- CSC 134 Core Word (1)
- CSC 135 Core Excel (1)
- HCS 270 Ethical Considerations in Health Care (3)
- HPE 111 First Aid and Basic Life Support (1)
- SUNY General Education approved course in American Sign Language or Spanish (3)
- General Elective (3)
- Health/Physical Education (HPE) Elective (1)

Note: Any student who successfully completes ENG 103 and a general education COM course may receive credit for ENG 125 upon acceptance to the FLCC Nursing program.

Human Services

The Degree

Associate in Science (A.S.)

The Program

The A.S. in Human Services degree program is ideal for you if you are looking to:

- Work with children, youth, persons with disabilities, the elderly, or those who are in need.
- Develop skills for employment in community agencies providing health, education, and welfare services.

Program Learning Outcomes

Upon completion of this degree program, students will:

- Demonstrate research, communication, and critical thinking skills.
- Demonstrate knowledge of Ethical Standards as they apply to the field of Human Services.
- Demonstrate knowledge and skill in the Human Service skill subset of Case Management.
- Successfully complete Field Placement and exhibit professional competency.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- HUS 102 Human Services in Contemporary America
- HUS 103 Case Management
- HUS 150 Interviewing and Counseling
- HUS 204 Field Experience I
- HUS 205 Field Experience II

General Electives

- COM 110 Public Speaking
- 3 credit hours of Computing Sciences Electives
- ENG 101 Composition I
- ENG 103 Composition II
- PSY 100 Introduction to Psychology

- SOC 100 Introduction to Sociology
- SOC 200 Social Problems
- 3 credit hours of SUNY General Education approved courses in one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 9 credit hours of SUNY General Education approved courses in Mathematics/Natural Sciences Electives, determined through advisement. (Must include at least one Mathematics and one Natural Sciences course.)
- 3 credit hours of SUNY General Education approved courses in The Arts
- 3 credit hours of SUNY General Education approved courses in World (Foreign) Language
- 3 credit hours of Social Sciences Electives*
- HPE 212 Health OR HPE 214 Advanced First Aid, CPR and AED
- 1 credit hour of Health/Physical Education (HPE) Electives*

Notes

*Selected with faculty advisement

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16-17 Credit Hours)

- ENG 101 Composition I (3)
- HUS 102 Human Services in Contemporary America (3)
- PSY 100 Introduction to Psychology (3)
- SUNY General Education approved course in Mathematics or Natural Sciences (3-4)*
- Computing Sciences Elective (3)
- Health/Physical Education (HPE) Elective (1)**

Second Semester (15-16 Credit Hours)

- ENG 103 Composition II (3)
- HUS 103 Case Management (3)
- HUS 150 Interviewing and Counseling (3)
- SOC 100 Introduction to Sociology (3)
- SUNY General Education approved course in Mathematics or Natural Sciences (3-4)*

Third Semester (16 Credit Hours)

- HUS 204 Field Experience I (4)
- COM 110 Public Speaking (3)
- SOC 200 Social Problems (3)
- SUNY General Education approved course in The Arts (3)
- SUNY General Education approved course in World (Foreign) Language (3)

Fourth Semester (16-17 Credit Hours)

- HUS 205 Field Experience II (4)
- SUNY General Education approved course in Mathematics or Natural Sciences (3-4)*
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)*
- Social Sciences Elective (3)*
- HPE 212 Health (3) OR HPE 214 Advanced First Aid, CPR and AED (3)

Notes

*Selected with faculty advisement

**Must include at least one Mathematics and one Natural Sciences course.

Kinesiology and Human Performance

The Degree

Associate in Science (A.S.)

The Program

As a student in the Kinesiology and Human Performance degree program, you'll gain a strong foundation in anatomy, wellness, sports performance improvement, and injury rehabilitation. The program is dynamic, and hands-on, leaving you with the in-demand skills and knowledge to continue your education in a four-year program and begin your career in the booming wellness industry.

Throughout the program, you'll dive deeper into a variety of subject areas ranging from health to physiology to nutrition, and will learn how to complete fitness, wellness, and injury evaluations. You'll apply what you learn in the classroom and take a practical approach to your education by creating patient-specific plans related to fitness, nutrition, sports performance, and physical activity improvement.

You'll explore case studies that focus on the care and prevention of injuries as well as the ways to improve a person's performance during exercise, physical activity, or competitive athletic participation.

Program Learning Outcomes

Upon completion of the A.S. in Kinesiology and Human Performance program, you will be equipped with the skills and hands-on experience to be able to:

- Evaluate patterns of movement related to sport, exercise, and physical activity.
- Interpret the signs, symptoms, and predisposing factors of an injury, illness, or health-related condition to articulate a clinical impression.
- Utilize the current standards of practice to provide exercise or treatment plans for clients or patients.
- Classify standards of practice, including legal and ethical behaviors, in various sports medicine settings.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- HPE 180 Sports Medicine First Year Experience
- HPE 212 Health
- HPE 227 Physiology of Exercise
- HPE 232 Health Sciences Applied to Coaching
- HPE 260 Kinetics of Exercise and Sport
- HPE 270 Fitness Assessment and Program Design

General Education

- BIO 171 Human Anatomy and Physiology I
- BIO 172 Human Anatomy and Physiology II
- CSC 134 Core Word
- CSC 135 Core Excel
- CSC 136 PowerPoint
- ENG 101 Composition I
- ENG 103 Composition II
- MAT 121 Intermediate Statistics I OR MAT 200 Statistics
- NS 115 Introduction to Nutrition
- NS 220 Sports Nutrition
- PSY 100 Introduction to Psychology
- SUNY General Education approved course in Basic Communication: Oral
- SUNY General Education approved course in World (Foreign) Language
- SUNY General Education approved course from one the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- SUNY General Education approved course in Humanities OR The Arts

Approved Electives

Choose four (4) credits from the following:

- BIO 110 Fundamentals of Human Anatomy and Physiology
- BIO 121 General Biology I
- BIO 122 General Biology II
- CHM 121 General Chemistry I
- CHM 122 General Chemistry II
- HPE 110 Physical Conditioning
- HPE 117 Basic Weight Training
- HPE 187 Introduction to Physical Education and Coaching
- HPE 230 Philosophies, Principles and Organization of Athletics
- HPE 231 Theory and Techniques of Coaching
- HPE 900 Any Intercollegiate Team Sport
- PHY 151 University Physics I
- PHY 152 University Physics II

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit Hours)

- CSC 134 Core Word (1)
- CSC 135 Core Excel (1)
- CSC 136 PowerPoint (1)
- ENG 101 Composition I (3)
- HPE 180 Sports Medicine First Year Experience (3)
- PSY 100 Introduction to Psychology (3)
- SUNY General Education approved course in World (Foreign) Language (3)

Second Semester (16 Credit Hours)

- BIO 171 Human Anatomy and Physiology I (4)
- ENG 103 Composition II (3)
- HPE 212 Health (3)
- HPE 232 Health Sciences Applied to Coaching (3)
- MAT 121 Intermediate Statistics I (3) or MAT 200 Statistics (3)

Third Semester (16 Credit Hours)

- BIO 172 Human anatomy and Physiology II (4)
- HPE 260 Kinetics of Exercise and Sport (3)
- NS 115 Introduction to Nutrition (3)
- SUNY General Education approved course in Basic Communication: Oral (3)
- SUNY General Education approved course from one the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)

Fourth Semester (17 Credit Hours)

- HPE 227 Physiology of Exercise (4)
- HPE 270 Fitness Assessment and Program Design (3)
- NS 220 Sports Nutrition (3)
- SUNY General Education approved course in Humanities or The Arts (3)
- Approved Elective(s) (4)

Liberal Arts and Sciences: General Studies Track

The Degree

Associate in Science (A.S.)

The Program

Our A.S. Liberal Arts and Sciences: General Studies Track program offers you flexible course options that focus on mathematics and the sciences. This track is the most general option, providing you the opportunity to take classes in a variety of subject areas. If you plan to continue your studies after FLCC in one of the following areas, you can tailor your course selection to feature classes that will prepare you for transfer:

- Biology
- Chemistry
- Physics
- Pre-Med
- Pre-Vet

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Pose insightful and productive questions. Generate, evaluate, integrate, and cite compelling evidence to support reasonable conclusions.
- Express connections between disciplines with creativity and clarity.
- Take actionable steps to see tasks through to completion, both independently and collaboratively.
- Consider the impact of individual action on personal and community well-being, for example physical, environmental, social, occupational and fiscal well-being.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 61 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- ENG 103 Composition II
- PSY 100 Introduction to Psychology OR SOC 100 Introduction to Sociology
- CSC 135 Core Excel

- 3 credit hours SUNY General Education approved course in The Arts or 3 credits hours SUNY General Education approved course in World (Foreign) Language
- 3 credit hours SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 3 credit hours SUNY General Education approved course in Basic Communications: Oral
- 6-8 credit hours of SUNY General Education approved courses in Mathematics at the MAT 152 level or higher
- 2 credit hours Health/Physical Education Electives
- 8 credit hours of Natural Science electives from one of the following sequences:
 - BIO 121 General Biology I AND BIO 122 General Biology II
 - BIO 171 Human Anatomy and Physiology I AND BIO 172 Human Anatomy and Physiology II
 - CHM 121 General Chemistry I AND CHM 122 General Chemistry II
 - PHY 118 College Physics I AND PHY 119 College Physics II
 - PHY 151 University Physics I AND PHY 152 University Physics II

Track Courses

- 12 credits of General Electives
- 8 credits of Mathematics or Natural Sciences, 1 course at the 200 level or an additional sequence)
- 3 credits of First Year Experience Elective*

* FYS 130 First Year Seminar in Science recommended

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters. When planning your schedule, you should consult with your advisor.

First Semester (14-15 Credit Hours)

- ENG 101 Composition I (3)
- SUNY General Education approved course in Mathematics at MAT 152 level or higher (3-4)
- Natural Sciences first sequence course (4)
- First Year Experience Elective* (3)
- Health/Physical Education (HPE) Elective (1)

Second Semester (16-17 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- ENG 103 Composition II (3)
- SUNY General Education approved course in Mathematics at MAT 152 level or higher (3-4)
- Natural Sciences second sequence course (4)
- PSY 100 Introduction to Psychology (3) or SOC 100 Introduction to Sociology (3)

Third Semester (15 Credit Hours)

- CSC 135 Core Excel (1)
- SUNY General Education approved course in Mathematics or Natural Sciences (4)
- SUNY General Education approved course in Basic Communication: Oral (3)
- General Electives (6)
- Health/Physical Education (HPE) Elective (1)

Fourth Semester (16 Credit Hours)

- SUNY General Education approved course in The Arts (3) or SUNY General Education approved course in World Foreign Language (3)
- 200 Level SUNY General Education approved course in Mathematics or Natural Science (4)
- SUNY General Education approved course from one of the following categories (3):
 - American History
 - Western Civilization
 - Other World Civilizations
- General Electives (6)

*FYS 130 First Year Experience in Science recommended.

Mathematics

The Degree

Associate in Science (A.S.)

The Program

At FLCC, you will explore coursework in a wide range of math topics. Challenge yourself with classes in calculus and discrete math, or dive into introductory computer programming and statistics. Expand upon your strengths in solving problems and thinking analytically, and acquire the education necessary to transfer into a bachelor's program to further explore your love of numbers, equations, and theory.

Program Learning Outcomes

Upon completion of this degree program, students will have the ability to:

- Demonstrate proficiency in writing at the college level.
- Develop proficiency in oral discourse.
- Demonstrate proficiency in critical thinking.
- Develop the ability to use computer technology for research and production.
- Recognize the knowledge, skills, and values that will contribute to involvement in one's community.
- Identify the knowledge and skills necessary to live interdependently in a diverse, sustainable global community.
- Demonstrate the ability to comprehend, interpret, analyze, and evaluate college-level materials.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- MAT 100 Mathematics Seminar
- MAT 220 Discrete Mathematics for Computing
- MAT 271 Calculus I
- MAT 272 Calculus II
- MAT 273 Calculus III
- MAT 200 Statistics OR MAT 274 Differential Equations OR MAT 276 Linear Algebra

General Education

- CSC 115 CS1: Introduction to Programming and Computational Thinking
- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- SUNY General Education approved course in Basic Communication: Oral
- 6 credit hours of SUNY General Education approved courses from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- 3 credit hours of SUNY General Education approved course in Social Science
- Complete one of the following sequences:
 - BIO 121 General Biology I and BIO 122 General Biology II
 - BIO 171 Human Anatomy and Physiology I and BIO 172 Human Anatomy and Physiology II
 - CHM 121 General Chemistry I and CHM 122 General Chemistry II
 - PHY 151 University Physics I and PHY 152 University Physics II
- 4 credit hours of Health/Physical Education (HPE) Electives
- 12 credit hours of General Electives

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit Hours)

- ENG 101 Composition I (3)
- MAT 100 Mathematics Seminar (1)
- MAT 271 Calculus I (4)
- 3 credit hours of SUNY General Education approved courses from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- General Elective (3)
- Health/Physical Education (HPE) Elective (1)

Second Semester (15 Credit Hours)

- BIO 121 General Biology I OR BIO 171 Human Anatomy and Physiology I OR CHM 121 General Chemistry I OR PHY 151 University Physics I (4)
- ENG 102 Introduction to Reading Literature (3)
- MAT 272 Calculus II (4)
- General Elective (3)
- Health/Physical Education (HPE) Elective (1)

Third Semester (18 Credit Hours)

- BIO 122 General Biology II OR BIO 172 Human Anatomy and Physiology II OR CHM 122 General Chemistry II OR PHY 152 University Physics II (4)
- MAT 220 Discrete Mathematics for Computing (3)
- MAT 273 Calculus III (4)
- SUNY General Education approved course in Basic Communication: Oral (3)
- General Elective (3)
- Health/Physical Education (HPE) Elective (1)

Fourth Semester (17 Credit Hours)

- CSC 115 CS1: Introduction to Programming and Computational Thinking (3)
- MAT 200 Statistics (3) OR MAT 274 Differential Equations (4) OR MAT 276 Linear Algebra (3)
- 3 credit hours of SUNY General Education approved courses from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- SUNY General Education approved course in Social Science (3)
- General Elective (3)
- Health/Physical Education (HPE) Elective (1)

Music

The Degree

Associate in Science (A.S.)

The Program

FLCC's Music degree program is designed to ready you for transfer into a four-year program in music performance, music education, music business, or music therapy. The program is also an ideal foundation for a dual degree that incorporates music with science, technology, or another non-music program.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Deploy theory for the analysis of tonal and post tonal procedures, styles, and idioms as they appear in representative pieces of standard Western repertory.
- Perform individually, as well as in ensembles.
- Integrate connections between music history, theory, and literature for the purpose of an informed discussion or performance.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core:

- MUS 106 Music Theory I*
- MUS 106L Music Theory I Lab
- MUS 107 Music Theory II
- MUS 107L Music Theory II Lab
- MUS 111 Master Composers I
- MUS 117 Master Composers II
- MUS 157 Musical Notation Using Sibelius
- MUS 206 Music Theory III
- MUS 206L Music Theory III Lab
- MUS 207 Music Theory IV
- MUS 207L Music Theory IV Lab
- MUS 215 Music History I: Medieval to Baroque
- MUS 216 Music History II: Classic to Modern

- 4 credit hours of Applied Music Electives** (Four semesters in one specific instrument or voice are required)
- 4 credit hours of Music Ensemble Electives*** (Four semesters are required)

General Education:

- ENG 101 Composition I
- ENG 103 Composition II
- SUNY General Education approved course in Basic Communication: Oral
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 3 credit hours of SUNY General Education approved course in Social Sciences
- 3 credit hours of SUNY General Education approved course in Mathematics
- 4 credit hours of SUNY General Education approved course in Natural Sciences****
- 2 credit hours of Health/Physical Education (HPE) Electives

Notes:

* All incoming students must take the Music Theory Placement Test. View details on the [Music Theory Placement test](#).

** Applied Music Electives: MUS 131 Piano, MUS 132 Voice, MUS 133 Trumpet, MUS 134 Flute, MUS 135 Classical Guitar, MUS 137 Saxophone, MUS 146 Drumset, MUS 159 Oboe, MUS 160 Percussion, MUS 161 French Horn, MUS 163 Jazz Bass, MUS 164 Trombone, MUS 165 Clarinet, MUS 167 Jazz Piano, MUS 168 Jazz Guitar and MUS 169 Jazz Voice. (Four semesters in one specific instrument or voice required)

*** Music Ensemble Electives: MUS 109 Vocal Jazz Ensemble, MUS 118 Guitar Ensemble, MUS 119 Percussion Ensemble, MUS 120 Finger Lakes Chorale, MUS 125 Finger Lakes Camerata, MUS 126 College Singers, MUS 127 Jazz Ensemble, MUS 129 Performance Class I, MUS 145 Chamber Wind Ensemble and MUS 229 Performance Class II. (Four semesters required)

**** PHY 105 Physics of Sound recommended

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ENG 101 Composition I (3)
- MUS 106 Music Theory I (3)*
- MUS 106L Music Theory I Lab (1)
- MUS 111 Master Composers I (3)
- MUS 157 Musical Notation Using Sibelius (3)
- Applied Music Elective (1)
- Ensemble Elective (1)
- Health/Physical Education (HPE) Elective (1)

Second Semester (17 Credit Hours)

- ENG 103 Composition II (3)
- MUS 107 Music Theory II (3)
- MUS 107 Music Theory II Lab (1)
- MUS 117 Master Composers II (3)
- SUNY General Education approved course in Natural Sciences (4) (PHY 105 Physics of Sound recommended)
- Applied Music Elective (1)
- Ensemble Elective (1)
- Health/Physical Education (HPE) Elective (1)

Third Semester (15 Credit Hours)

- MUS 206 Music Theory III (3)
- MUS 206L Music Theory III Lab (1)
- MUS 215 Music History I (3)
- Applied Music Elective (1)
- Ensemble Elective (1)
- SUNY General Education approved course in Basic Communication: Oral (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)

Fourth Semester (15 Credit Hours)

- MUS 207 Music Theory IV (3)
- MUS 207L Music Theory IV Lab (1)
- MUS 216 Music History II (3)
- Applied Music Elective (1)
- Ensemble Elective (1)
- SUNY General Education approved course in Social Sciences (3)
- SUNY General Education approved course in Mathematics (3)

Note:

* All incoming students must take the Music Theory Placement Test. View details on the [Music Theory Placement test](#).

Music Recording Technology

The Degree

Associate in Science (A.S.)

The Program

Extensive hands-on training is the hallmark of this program. You'll learn and practice modern techniques in five state-of-the-art recording, tracking, and editing studios.

Coursework is carefully designed by faculty who bring real-life experiences from the stage and studio to the classroom. Music Recording Technology coursework.

Program Learning Outcomes

Upon completion of this degree program, students will:

- Evaluate the quality of individual sounds and finished recording with respect to genre.
- Communicate in a professional manner through oral and written means with musicians, engineers, and industry professionals.
- Create and/or perform musical pieces in order to have a shared experience with the musicians with whom they interact.
- Apply industry standards of hardware, software, and technical skills to enhance the creative process.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core:

- MUS 106 Music Theory I*
- MUS 106L Music Theory I Lab
- MUS 107 Music Theory II
- MUS 107L Music Theory II Lab
- MUS 170 Techniques of Audio Recording I
- MUS 177 Introduction to Music Business OR MUS 179 Career Paths in the Music Industry
- MUS 206 Music Theory III
- MUS 206L Music Theory III Lab
- MUS 207 Music Theory IV
- MUS 207L Music Theory IV Lab
- MUS 270 Techniques of Audio Recording II
- MUS 271 Techniques of Audio Recording III

- MUS 272 Techniques of Audio Recording IV
- MUS 290 Sound Reinforcement and Live Recording Techniques
- 4 credit hours of Applied Music Electives** (Four semesters in one specific instrument or voice are required)
- 4 credit hours of Music Ensemble Electives*** (Four semesters are required)

General Education:

- ENG 101 Composition I
- ENG 103 Composition II
- 3 credit hours of SUNY General Education approved course in Basic Communications: Oral
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 3 credit hours of SUNY General Education approved course in Social Science
- 3 credit hours of SUNY General Education approved course in Mathematics
- 4 credit hours of SUNY General Education approved course in Natural Sciences****
- 2 credit hours of Health/Physical Education (HPE) Electives

Notes:

* All incoming students must take the Music Theory Placement Test. View details on the [Music Theory Placement test](#).

** Applied Music Electives: MUS 131 Piano, MUS 132 Voice, MUS 133 Trumpet, MUS 134 Flute, MUS 135 Classical Guitar, MUS 137 Saxophone, MUS 146 Drumset, MUS 159 Oboe, MUS 160 Percussion, MUS 161 French Horn, MUS 163 Jazz Bass, MUS 164 Trombone, MUS 165 Clarinet, MUS 167 Jazz Piano, MUS 168 Jazz Guitar and MUS 169 Jazz Voice (Four semesters in one specific instrument or voice required). Students wishing to enter a 2+2 program should consult with their advisor regarding the specific requirements of the transfer school.

*** Music Ensemble Electives: MUS 109 Vocal Jazz Ensemble, MUS 118 Guitar Ensemble, MUS 119 Percussion Ensemble, MUS 120 Finger Lakes Chorale, MUS 125 Finger Lakes Camerata, MUS 126 College Singers, MUS 127 Jazz Ensemble, MUS 129 Performance Class I, MUS 145 Chamber Wind Ensemble and MUS 229 Performance Class II (Four semesters required).

**** PHY 105 Physics of Sound is recommended

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit Hours)

- ENG 101 Composition 1 (3)
- MUS 106 Music Theory I* (3)
- MUS 106L Music Theory I Lab (1)
- MUS 170 Techniques of Audio Recording I (3)
- MUS 177 Introduction to Music Business (1) OR MUS 179 Career Paths in the Music Industry (1)
- SUNY General Education approved course in Natural Sciences (4)
- Applied Music Elective (1)
- Music Ensemble Elective (1)

Second Semester (16 Credit Hours)

- ENG 103 Composition II (3)
- SUNY General Education approved course in Basic Communication: Oral (3)
- MUS 107 Music Theory II (3)
- MUS 107L Music Theory II Lab (1)
- MUS 270 Techniques of Audio Recording II (3)
- Applied Music Elective (1)
- Music Ensemble Elective (1)
- Health/Physical Education (HPE) Elective (1)

Third Semester (16 Credit Hours)

- MUS 206 Music Theory III (3)
- MUS 206L Music Theory III Lab (1)
- MUS 271 Techniques of Audio Recording III (3)
- Applied Music Elective (1)
- Music Ensemble Elective (1)
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- SUNY General Education approved course in Mathematics (3)
- Health/Physical Education (HPE) Elective (1)

Fourth Semester (15 Credit Hours)

- MUS 207 Music Theory IV (3)
- MUS 207L Music Theory IV Lab (1)
- MUS 272 Techniques of Audio Recording IV (3)
- MUS 290 Sound Reinforcement and Live Recording Techniques (3)
- Applied Music Elective (1)
- Music Ensemble Elective (1)
- SUNY General Education approved Social Science Elective (3)

Note:

* All incoming students must take the Music Theory Placement Test. View details on the [Music Theory Placement test](#).

New Media

The Degree

Associate in Science (A.S.)

The Program

FLCC's New Media program is designed to provide you integrated coursework in video production and editing, multimedia, audio production, and graphic design. Your education will feature practical experience in two Macintosh media labs, extensive PC computer labs, and a 900-square-foot on-campus television studio. Throughout your studies, you'll utilize industry-standard tools and programs, such as Avid nonlinear editing software, Pro Tools, Adobe Creative Suite, digital still cameras, digital camcorders, and digital studio cameras.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Distinguish and demonstrate the ability to communicate effectively using a variety of digital media.
- Analyze an audience and form a message to effectively reach that audience.
- Create and defend creative works using digital media, video, print, multimedia, and the spoken word.

Curriculum Requirements

As a student in this program, you are required to successfully complete a minimum of 64 credit hours of study with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Humanities

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- 3 credit hours of SUNY General Education approved course in Basic Communication: Oral
- 3 credit hours of SUNY General Education The Arts Elective

Social Science

- 9 credit hours of Social Science Electives

Math/Science

- 9 credit hours of Math Electives/Natural Sciences Electives*

Communications

- COM 123 Video Production I
- COM 215 Script Writing OR COM/ENG 223 Media Writing
- COM 220 Digital Video Editing

New Media

- COM/DIG 200 Audio for Film and Video
- DIG 100 Introduction to Digital Media
- DIG 120 Digital Media Design
- DIG 210 Introduction to Game and Mobile Application Development
- DIG 230 New Media Production

Computing Sciences

- CSC 162 Web Site Development for New Media
- CSC 164 Introduction to Scripting for New Media

Health/Physical Education

- 3 credit hours of Health/Physical Education (HPE) Electives

*Must include at least one Mathematics and one Natural Sciences course.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ENG 101 Composition I (3)
- COM 123 Video Production I (4)
- CSC 162 Web Site Development for New Media (3)
- DIG 100 Introduction to Digital Media (3)
- Social Science Elective (3)

Second Semester (16-17 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- COM 220 Digital Editing (3)
- CSC 164 Introduction to Scripting for New Media (3)
- DIG 120 Digital Media Design (3)

- Mathematics Elective (3-4) OR Natural Sciences Elective (3-4)*
- Health/Physical Education (HPE) Elective (1)

Third Semester (16-17 Credit Hours)

- SUNY General Education approved course in Basic Communication: Oral (3)
- COM/DIG 200 Audio for Film and Video (3)
- DIG 210 Introduction to Game and Mobile Application Development (3)
- Social Science Elective (3)
- Mathematics Elective (3-4) OR Natural Sciences Elective (3-4)*
- Health/Physical Education (HPE) Elective (1)

Fourth Semester (16-17 Credit Hours)

- COM/ENG 223 Media Writing (3) OR COM 215 Script Writing (3)
- DIG 230 New Media Production (3)
- Social Science Elective (3)
- Mathematics Elective (3-4) OR Natural Sciences Elective (3-4)
- SUNY General Education The Arts Elective (3)
- Health/Physical Education (HPE) Elective (1)

*Must include at least one Mathematics course and one Natural Sciences course.

Nutrition and Dietetics

The Degree

Associate in Science (A.S.)

The Program

FLCC's Nutrition and Dietetics degree program responds to the growing need for professionals dedicated to the study of dietetics. Nutrition is one of the fastest growing fields in the health care industry. In recent years, interest in the role of food in promoting health and wellness has increased, particularly as a part of preventative health care in medical settings.

According to the Centers for Disease Control, more than one-third of U.S. adults are obese. The importance of diet in preventing and treating illnesses is now well known. More dietitians and nutritionists may be needed to provide care for people with these conditions. This could be you!

This program provides a well-rounded background on the role that nutrition plays in health, disease, and wellness. With this degree, you'll be prepared to transfer into a four-year degree program and continue your studies.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Assess macro and micro nutrient needs for individuals in order to improve health, prevent, or delay disease.
- Differentiate approaches to make recommendations to meet an individual's health and wellness goals.
- Evaluate nutritional information for reliability and usefulness in analyzing claims.
- Take actionable steps to improve nutritional well-being for themselves and those around them.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 semester hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- CUL 100 Culinary Fundamentals
- CUL 105 Culinary Fundamentals Lab
- 2 credits of Health/Physical Education (HPE) Elective
- NS 115 Introduction to Nutrition
- NS 210 Nutrition in the Life Cycle

- NS 220 Sports Nutrition
- HCS 270 Ethical Considerations in Health Care

General Education

- BIO 121 General Biology I
- BIO 171 Human Anatomy & Physiology I
- BIO 172 Human Anatomy & Physiology II
- CHM 121 General Chemistry I
- CSC 134 Core Word
- CSC 135 Core Excel
- CSC 136 PowerPoint OR CSC 139 MS Access
- ENG 101 Composition I
- ENG 103 Composition II
- MAT 121 Introductory Statistics I
- PSY 100 Introduction to Psychology OR SOC 100 Introduction to Sociology
- SUNY General Education approved course in Basic Communication: Oral
- SUNY General Education approved course in The Arts OR World (Foreign) Language
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations

Approved Electives

Choose 6 credits from the following:

- ANT 110 Human Prehistory OR ANT 111 Cultural Anthropology
- BIO 110 Fundamentals of Human Anatomy and Physiology
- BIO 122 General Biology II
- BIO 230 Microbiology
- CHM 122 General Chemistry II
- CUL 110 Intermediate Culinary Application AND CUL 115 Intermediate Culinary Applications Lab
- HPE 125 Lifetime Fitness and Nutrition
- HPE 164 Stress Reduction through Exercise
- HPE 212 Health
- HPE Elective
- MAT 145 Survey of Functions I
- PSY 100 Introduction to Psychology OR SOC 100 Introduction to Sociology

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit hours)

- BIO 121 General Biology I (4)
- ENG 101 Composition I (3)
- MAT 121 Introductory Statistics I (3)
- NS 115 Introduction to Nutrition (3)
- PSY 100 Introduction to Psychology or SOC 100 Introduction to Sociology (3)

Second Semester (16 Credit hours)

- CSC 134 Core Word (1)
- CSC 135 Core Excel (1)
- CSC 136 PowerPoint OR CSC 139 NS Access (1)
- CUL 100 Culinary Fundamentals (3)
- CUL 105 Culinary Fundamentals Lab (1)
- ENG 103 Composition II (3)
- NS 220 Sports Nutrition (3)
- Approved elective (3)

Third Semester (17 Credit hours)

- BIO 171 Human Anatomy & Physiology I (4)
- CHM 121 General Chemistry I (4)
- NS 210 Nutrition in the Life Cycle (3)
- HCS 270 Ethical Considerations in Health Care (3)
- SUNY General Education approved course in Basic Communication: Oral (3)

Fourth Semester (15 Credit hours)

- BIO 172 Human Anatomy & Physiology II (4)
- HPE Elective (2)
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- SUNY General Education approved course in The Arts OR World (Foreign) Language (3)
- Approved elective (3)

Physical Education & Exercise Science

The Degree

Associate in Science (A.S.)

The Program

The A.S. Physical Education and Exercise Science curriculum will help you take actionable steps for seamless transfer to a Bachelor of Science degree program. In this program, you will evaluate and integrate the benefits and impact physical activity has on your quality of life. Successful graduates will appreciate the value of physical activity in human development, interaction, and performance as physical educators who will make a difference in the vitality of their communities.

Program Learning Outcomes

All students graduating from the A.S. Physical Education and Exercise Science program will be able to:

- Observe and evaluate patterns of movement related to sport, exercise and fitness.
- Analyze a situation to prevent or evaluate a physical injury.
- Advocate for a lifetime of physical activity using their knowledge or wellness.
- Describe fundamental concepts, skills, and certifications essential to the physical education and exercise science fields.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 60-64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- BIO 110 Fundamentals of Human Anatomy and Physiology and BIO 110L Fundamentals of Human Anatomy and Physiology Lab OR BIO 171 Human Anatomy and Physiology I
- BIO 172 Human Anatomy and Physiology II OR HPE 212 Health
- HPE 110 Physical Conditioning
- HPE 117 Basic Weight Training
- HPE 136 Introduction to Adventure Learning
- HPE 187 Introduction to Physical Education and Coaching
- HPE 190 Care and Prevention of Athletic Injuries
- HPE 227 Physiology of Exercise
- 3 credits of Health/Physical Education Elective(s) (HPE)
- NS 115 Introduction to Nutrition

General Education

- ENG 101 Composition I
- ENG 103 Composition II
- SUNY General Education approved course in Basic Communication: Oral
- 2 credit hours Computing Science (CSC) Electives
- PSY 100 Introduction to Psychology
- PSY 205 Adolescent Psychology OR PSY 225 Child Psychology OR EDU 200 Foundations of Education
- SUNY General Education approved course in Humanities OR The Arts
- SUNY General Education approved course in World (Foreign) Language
- SUNY General Education approved course in Mathematics
- SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 5-8 credits General Electives

***Note* Below are examples to fulfill the general electives requirement:**

- CDC 102 Concepts of Chemical Dependency I
- CHM 121 General Chemistry I
- CHM 122 General Chemistry II
- EDU 200 Foundations of Education
- 1 credit hour HPE Elective
- HPE 122 Concepts of Wellness
- HPE 170 Introduction to Logging Sports
- HPE 212 Health
- HPE 230 Philosophy, Principles, and Organization of Athletics in Education
- HPE 231 Theory and Techniques of Coaching
- HPE 232 Health Sciences Applied to Coaching
- HPE 242 Lifeguarding
- HPE 260 Kinetics of Exercise and Sport
- HPE 270 Fitness Assessment and Program Design
- HPE Intercollegiate Sport
- MAT 152 Pre-Calculus (Survey of Functions II) OR MAT 271 Calculus I
- NS 220 Sports Nutrition
- SOC 210 Race and Ethnicity
- SOC 230 Sex and Gender
- SSC 150 Human Sexuality

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit Hours)

- ENG 101 Composition I (3)
- HPE 187 Introduction to Physical Education and Coaching (3)
- HPE 190 Care and Prevention of Athletic Injuries (3)
- PSY 100 Introduction to Psychology (3)
- SUNY General Education approved course in Humanities or The Arts (3)

Second Semester (16 Credit Hours)

- BIO 110 Fundamentals of Human Anatomy and Physiology (3) and BIO 110L Fundamentals of Human Anatomy and Physiology Lab (1) OR BIO 171 Human Anatomy and Physiology I (4)
- ENG 103 Composition II (3)
- HPE 110 Physical Conditioning (1)
- HPE 117 Basic Weight Training (1)
- HPE Elective (1)
- NS 115 Introduction to Nutrition (3)
- PSY 205 Adolescent Psychology OR PSY 225 Child Psychology OR EDU 200 Foundations of Education (3)

Third Semester (15-16 Credit Hours)

- BIO 172 Human Anatomy and Physiology II (4) OR HPE 212 Health (3)
- CSC Elective (2)
- HPE Elective (1)
- General Elective (3)
- SUNY General Education approved course in Mathematics (3)
- SUNY General Education approved course in Basic Communication: Oral (3)

Fourth Semester (14-17 Credit Hours)

- HPE 136 Adventure Learning (1)
- HPE 227 Physiology of Exercise (4)
- HPE Elective (1)
- General Electives (2-5)
- SUNY General Education approved course in World (Foreign) Language (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)

Note Below are examples to fulfill the general elective requirement:

- CDC 102 Concepts of Chemical Dependency I
- CHM 121 General Chemistry I
- CHM 122 General Chemistry II
- EDU 200 Foundations of Education
- 1 credit hour HPE Elective
- HPE 122 Concepts of Wellness
- HPE 170 Introduction to Logging Sports
- HPE 212 Health
- HPE 230 Philosophy, Principles, and Organization of Athletics in Education
- HPE 231 Theory and Techniques of Coaching
- HPE 232 Health Sciences Applied to Coaching
- HPE 242 Lifeguarding
- HPE 260 Kinetics of Exercise and Sport
- HPE 270 Fitness Assessment and Program Design
- HPE Intercollegiate Sport
- MAT 152 Pre-Calculus (Survey of Functions II) OR MAT 271 Calculus I
- NS 220 Sports Nutrition
- SOC 210 Race and Ethnicity
- SOC 230 Sex and Gender
- SSC 150 Human Sexuality

Psychology

The Degree

Associate in Science (A.S.)

The Program

In this degree program, you'll receive a well-rounded education that combines psychology classes with courses in math, science, and writing. Your core classes will explore human behavior and the mind, providing you the opportunity to examine the influence that people's thoughts, emotions, and behaviors have on human interaction. This program is designed to prepare you for transfer into a bachelor's program in psychology or a related field, including chemical dependency counseling, human services, and social work.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Differentiate the major concepts associated with the various schools of thought in psychology (i.e., biological, psychoanalytic, learning theory, humanist, etc.).
- Analyze the various factors that influence human behavior and how they impact individual behavioral choices.
- Discuss ethical issues in the study and practice of psychology.
- Apply scientific and research methods to evaluate questions and issues examined by the various schools of thought in psychology.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- PSY 100 Introduction to Psychology
- PSY 104 Exploring Psychology
- PSY 200 Life Span Development OR PSY 205 Adolescent Psychology OR PSY 225 Child Psychology
- PSY 210 Social Psychology
- PSY 220 Abnormal Psychology
- PSY 255 Research Methods in Psychology

General Education

- BIO 115 Human Biology OR BIO 121 General Biology I OR BIO 125 Foundations of Life Science OR BIO 171 Human Anatomy and Physiology I
- CSC 100 Computing in the Information Age OR CSC 134 Core Word, CSC 135 Core Excel, and CSC 136 PowerPoint OR CSC 105 Core Word, Core Excel, PowerPoint
- ENG 101 Composition I
- ENG 103 Composition II
- HPE 122 Concepts of Wellness or HPE 164 Stress Reduction Through Exercise
- MAT 145 Survey of Functions I OR MAT 152 Pre-Calculus (Survey of Functions II) OR MAT 271 Calculus I
- MAT 165 Introduction to Data Science OR MAT 200 Statistics
- SOC 100 Introduction to Sociology
- SUNY General Education approved course in Basic Communication: Oral
- SUNY General Education approved course in Western Civilization
- SUNY General Education approved course in World (Foreign) Language
- SUNY General Education approved course in Humanities
- SUNY General Education approved course in The Arts
- SUNY General Education approved course from one of the following categories:
 - American History
 - Other World Civilizations
- 3 credits of Anthropology (ANT) Elective
- 3 credits Social Science Elective

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- CSC 100 Computing in the Information Age (3) OR CSC 134 Core Word (1), CSC 135 Core Excel (1), and CSC 136 PowerPoint (1) OR CSC 105 Core Word, Core Excel, PowerPoint (3)
- ENG 101 Composition I (3)
- PSY 100 Introduction to Psychology (3)
- PSY 104 Exploring Psychology (1)
- SUNY General Education approved course in Basic Communication: Oral (3)
- SUNY General Education approved course in Western Civilization (3)

Second Semester (17-18 Credit Hours)

- ENG 103 Composition II (3)
- MAT 145 Survey of Functions I (3) OR MAT 152 Pre-Calculus (Survey of Functions II) (3) OR MAT 271 Calculus I (4)
- PSY 210 Social Psychology (3)
- SOC 100 Introduction to Sociology (3)

- SUNY General Education approved course from one of the following:
 - American History (3)
 - Other World Civilizations (3)
- HPE 122 Concepts of Wellness (2) OR HPE 164 Stress Reduction Through Exercise (2)

Third Semester (16 Credit Hours)

- BIO 115 Human Biology (4) OR BIO 121 General Biology I (4) OR BIO 125 Foundations of Life Science (4) OR BIO 171 Human Anatomy and Physiology I (4)
- MAT 165 Introduction to Data Science (3) OR MAT 200 Statistics (3)
- PSY 200 Life Span Development (3) OR PSY 205 Adolescent Psychology (3) OR PSY 225 Child Psychology (3)
- SUNY General Education approved course in Humanities (3)
- Anthropology (ANT) Elective (3)

Fourth Semester (15 Credit Hours)

- PSY 220 Abnormal Psychology (3)
- PSY 255 Research Methods in Psychology (3)
- Social Science Elective (3)
- SUNY General Education approved course in The Arts (3)
- SUNY General Education approved course in World (Foreign) Language (3)

Sports Studies

The Degree

Associate in Science (A.S.)

The Program

The A.S. sports studies degree program provides the preparation needed for transfer to baccalaureate degree programs. Courses in sports studies, sports marketing, and event management will give you a solid foundation to build on as you pursue your bachelor's and prepare for one of the many diverse career options in this industry. Conferences and special opportunities to learn from high profile sports professionals play a key role in FLCC's commitment to providing a field-based education.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Employ a basic knowledge of sports to facilitate successful transfer in those disciplines.
- Employ knowledge of event management components and their centrality to sports businesses.
- Identify the components that contribute to the unique aspects of sports as a business.
- Interpret statistical data utilizing critical thinking skills and its application in the sports industry.
- Explain the international growth and emerging impact of the sports industry.
- Model professional decorum and behavior.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Humanities

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- COM 110 Public Speaking OR COM 115 Interpersonal Communication

Social Science

- ECO 210 Principles of Macroeconomics
- ECO 211 Principles of Microeconomics
- 6 credit hours of Social Science Electives

Mathematics/Science

- MAT 121 Introductory Statistics I
- MAT 122 Introductory Statistics II
- 8 credit hours of Science Electives

Business

- ACC 101 Principles of Financial Accounting
- ACC 102 Principles of Managerial Accounting

Information Management

- CSC 100 Computing in the Information Age OR Higher Level CSC course

Sports Studies

- BUS 126 Introduction to Sports Studies
- BUS 231 Sports Marketing
- HOS 100 Introduction to Tourism
- HOS 232 Event Management

Health/Physical Education

- 3 credit hours of Health/Physical Education (HPE) Electives

General Electives

- 3 credit hours of General Electives

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ENG 101 Composition I (3)
- BUS 126 Introduction to Sports Studies (3)
- CSC 100 Computing in the Information Age (3) OR Higher Level Computer Science (CSC) Elective (3)
- MAT 121 Introductory Statistics I (3)
- ECO 210 Principles of Macroeconomics (3)
- Health/Physical Education (HPE) Elective (1)

Second Semester (16 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- BUS 100 Introduction to Tourism (3)
- ECO 211 Principles of Microeconomics (3)
- MAT 122 Introductory Statistics II (3)
- COM 110 Public Speaking (3) OR COM 115 Interpersonal Communication (3)
- Health/Physical Education (HPE) Elective (1)

Third Semester (17 Credit Hours)

- BUS 231 Sports Marketing (3)
- ACC 101 Principles of Financial Accounting (4)
- Science Elective (4)
- General Elective (3)
- Social Science Elective (3)

Fourth Semester (15 Credit Hours)

- BUS 232 Event Management (3)
- ACC 102 Principles of Managerial Accounting (4)
- Social Science Elective (3)
- Science Elective (4)
- Health/Physical Education (HPE) Elective (1)

Architectural Technology

The Degree

Associate in Applied Science (A.A.S.)

The Program

Our A.A.S. Architectural Technology degree program provides the knowledge and technical experience needed to advance beyond entry-level drafting to more complex designs leading to a career in architecture. You'll receive a solid education that will get you ready to explore a four-year science or five-year professional architectural degree program, if that's your goal.

Instruction emphasizes technical competence and utilizes computer-aided drafting (CAD). You'll utilize a well-equipped CAD lab, which offers 24 networked PCs with current versions of AutoCAD, AutoCAD Architecture, Microsoft Office, Google SketchUp, Revit, and SOLIDWORKS. Networked output devices include a 3D printer, color laser printer, and large format color plotter. At FLCC, you'll have everything you need to build higher and farther than you could've ever imagined!

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Design projects based on the study of historic precedence and its evolution to stimulate artistic sensitivities and creative sensibilities.
- Analyze construction materials, methods, techniques and sustainability.
- Present projects using various media typical to the architectural industry.
- Analyze typical processes for the professional practice of architecture.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 semester hours with a grade point average of no lower than C (2.0). All technology students take a common core of courses during the first semester along with an introductory course in their chosen degree program. After the first semester, it is possible for the student to transfer from one degree program to another without loss of credit. For this degree program, you must successfully complete the following:

Program Core

- ARC 105 Architectural Drawing
- ARC 106 Architectural Drawing in Digital Media
- ARC 120 Architectural History: 1880 – Present
- ARC 130 Construction Materials
- ARC 242 Construction Management

- ARC 244 Residential Design
- ARC 246 Commercial Design
- ARC 248 Structural Design
- ARC 249 Building Mechanical Systems
- MET 216 Statics and Strength of Materials

General Education

- ENG 101 Composition I
- ENG 103 Composition II
- COM 110 Public Speaking
- PHY 118 College Physics I or PHY 151 University Physics I
- 3 credit hours of SUNY General Education approved course in The Arts or Social Sciences
- 3 credit hours of General Electives
- 2 credit hours of Health/Physical Education (HPE) Electives

Students must take two (2) courses (based on their level of math competency) from the following:

- MAT 145 Survey of Functions I
- MAT 152 Pre-Calculus (Survey of Functions II)
- MAT 271 Calculus I
- MAT 272 Calculus II

Approved Electives

Choose six (6) credits from the following:

- ARC 110 Architecture History: Prehistory – 1880
- ART 102 Foundation Drawing I
- ART 103 Foundation Drawing II
- ART 104 Design I
- ART 105 Design II
- ART 106 Ceramics I
- ART 110 Digital Photography
- ART 115 Computer Imagining
- ART 200 Figure Drawing
- ART 205 Modeling and Sculpture I
- ART 220 Graphic Illustration
- CON 103 Environmental Science
- HIS 100 Early Western Civilization: Greeks to the Renaissance
- HIS 101 Modern Western Civilization: Enlightenment to the Cold War
- HRT 110 Introduction to Horticulture
- HRT 111 Tree Culture & Maintenance
- HRT 151 Plant Materials
- HRT 201 Landscape Design I
- HRT 202 Landscape Construction and Maintenance

- MAT 271 Calculus I
- MAT 272 Calculus II
- MET 101 Material Sciences
- MET 104 Manufacturing Processes
- MET 205 Engineering Drawing III
- PHY 119 College Physics II
- POL 100 American Government
- SOC 100 Introduction to Sociology
- TECH 122 Electronic Theory
- TECH 250 Technology Co-op

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ARC 105 Architectural Drawing (3)
- ARC 130 Construction Materials (3)
- ENG 101 Composition I (3)
- MAT 145 Survey of Functions I (3)
- Health/Physical Education (HPE) Elective (1)
- Approved Technology Elective (3)

Second Semester (16 Credit Hours)

- ARC 106 Architectural Drawing in Digital Media (3)
- ARC 120 Architecture History: 1880–Present (3)
- ENG 103 Composition II (3)
- MAT 152 Pre-Calculus (Survey of Functions II) (3)
- PHY 118 College Physics I (4) or PHY 151 University Physics I (4)

Third Semester (16 Credit Hours)

- ARC 242 Construction Management (3)
- ARC 244 Residential Design (3)
- COM 110 Public Speaking (3)
- MET 216 Statics and Strength of Materials (3)
- Health/Physical Education (HPE) Electives (1)
- SUNY General Education approved course in The Arts or Social Sciences (3)

Fourth Semester (16 Credit Hours)

- ARC 246 Commercial Design (3)
- ARC 248 Structural Design (4)
- ARC 249 Building Mechanical Systems (3)
- Approved Technology Elective (3)
- General Elective (3)

Business - Accounting

The Degree

Associate in Applied Science (A.A.S.)

The Program

As an Accounting student at FLCC, you'll obtain a well-rounded education that is centered on a strong core of accounting and business classes. From financial to managerial accounting and intermediate to cost accounting, our degree program will provide you a solid foundation of knowledge in accounting, and it will equip you with the analytical, problem-solving, and communication skills that are necessary for a successful future in this field. Combined with your accounting courses, you'll take classes in marketing, business communications, and business law. With your degree, you'll be prepared to advance your studies in accounting or a business-related area at the four-year level.

Program Learning Outcomes

Upon completion of this degree program, students will have the ability to:

- Maintain a complete set of accounting records (i.e. financial transactions and business communications).
- Analyze accounting information in order to prepare general purpose financial statements.
- Utilize appropriate accounting software to perform accounting and business functions.
- Demonstrate ethical behavior and social responsibility associated with the current best practices in accounting.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63-64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- ACC 101 Principles of Financial Accounting
- ACC 102 Principles of Managerial Accounting
- ACC 201 Intermediate Accounting I
- ACC 207 Income Tax Accounting
- ACC 210 Computer Applications in Accounting
- ACC 212 Accounting for Government and Not-For-Profit Agencies
- BUS 120 Introduction to Business
- BUS 123 Business Communications
- BUS 222 Marketing
- BUS 227 Business Law

- BUS 250 Business Internship

General Education

- CSC 134 Core Word, CSC 135 Core Excel, and CSC 136 PowerPoint or BUS/CSC 212 MS Excel for Business Applications
- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- ECO 210 Principles of Macroeconomics
- ECO 211 Principles of Microeconomics
- 3 credits of SUNY General Education approved course in Basic Communication: Oral
- 3 credits of SUNY General Education approved course in Mathematics (MAT 121 Introductory Statistics I or MAT 200 Statistics recommended)
- 3-4 credit hours of SUNY General Education approved course from one of the following categories:
 - Natural Sciences
 - World (Foreign) Language
 - The Arts
 - American History
 - Western Civilization
 - Other World Civilizations
- 2 credit hours of Health/Physical Education (HPE) Electives

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (14 Credit Hours)

- ACC 101 Principles of Financial Accounting (4)
- BUS 120 Introduction to Business (3)
- CSC 134 Core Word, CSC 135 Core Excel, and CSC 136 PowerPoint or BUS/CSC 212 MS Excel for Business Applications (3)
- ENG 101 Composition I (3)
- Health/Physical Education (HPE) Elective (1)

Second Semester (16-17 Credit Hours)

- ACC 102 Principles of Managerial Accounting (4)
- ENG 102 Introduction to Reading Literature (3)
- SUNY General Education approved course in Basic Communication: Oral (3)
- SUNY General Education approved course in Mathematics (MAT 121 Introductory Statistics I or MAT 200 Statistics recommended) (3)
- SUNY General Education approved course from one of the following categories: (3-4)

- Natural Sciences
- World (Foreign) Language
- The Arts
- American History
- Western Civilization
- Other World Civilizations

Third Semester (16 Credit Hours)

- ACC 201 Intermediate Accounting I (4)
- ACC 210 Computer Applications in Accounting (3)
- BUS 123 Business Communications (3)
- BUS 222 Marketing (3)
- ECO 210 Principles of Macroeconomics (3)

Fourth Semester (17 Credit Hours)

- ACC 207 Income Tax Accounting (3)
- ACC 212 Accounting for Government and Not-For-Profit Agencies (4)
- BUS 227 Business Law (3)
- BUS 250 Business Internship (3)
- ECO 211 Principles of Microeconomics (3)
- Health/Physical Education (HPE) Elective (1)

Accounting Degree with Internship

The Business Department's Internship Program will enable you to supplement your academic status and increase career awareness through a semester of full-time work experience. This work experience will be available during the 15-week Spring Semester and for a 12-week session in the Summer. If you are interested in participating in this program, consult with your advisor.

Business - Business Administration

The Degree

Associate in Applied Science (A.A.S.)

The Program

As a student in our A.A.S. Business Administration degree program, you'll experience courses in a variety of areas ranging from accounting to economics and marketing to business law. And, you'll also engage in an intense study in business administration. Along with a strong core curriculum, this program provides you the opportunity to explore and enroll in a variety of business electives, which will broaden your background in this field. Whatever your goals are after FLCC—whether you plan to explore the job market or pursue an advanced degree—this program will prepare you for employment and transfer opportunities in the business field.

Program Learning Outcomes

- Apply mathematical principles and concepts to solve problems.
- Explore issues, ideas and data to formulate a plan of action.
- Identify the skills and knowledge necessary for businesses to succeed in the global community.
- Show the ability to identify, evaluate, use, and share information from current event resources.
- Apply marketing concepts as they relate to the marketplace and be able to apply this understanding to an entry-level position.
- Utilize the four basic financial statements and provide a managerial analysis of these statements in anticipation to their entrance into the workplace.
- Demonstrate how a business makes decisions by studying economic trends in anticipation to their entrance into the workplace.
- Apply the accepted process and procedure used to gain an entry-level business position by acquiring business communication skills for entering and being successful in the business community.
- Employ professional values and honesty in preparation to their entrance into the workplace.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Humanities

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- COM 100 Human Communication OR COM 110 Public Speaking OR COM 115 Interpersonal Communication

Social Science

- ECO 210 Principles of Macroeconomics Electives
- ECO 211 Principles of Microeconomics Electives

Mathematics and/or Science

- 3 credit hours Mathematics Electives*
- 3 credit hours Mathematics Electives and/or Science Electives*

Business

- ACC 101 Principles of Financial Accounting
- ACC 102 Principles of Managerial Accounting
- BUS 120 Introduction to Business OR BUS 124 Organizational Behavior**
- BUS 123 Business Communications
- BUS 222 Marketing
- BUS 227 Business Law
- 12 credit hours of Business Electives***

Computer Science

- 3 credit hours of Computer Science (CSC) Electives

Health/Physical Education

- 2 credit hours of Health/Physical Education (HPE) Electives

Electives

- 6 credit hours of general electives

Notes

* Recommended Mathematics Electives: MAT 121 Introductory Statistics I and MAT 122 Introductory Statistics II.

** Upon recommendation of academic advisor.

*** Business Electives include courses with the following prefixes: ACC, BUS, CSC, and HOS. Courses coded as PLG may be used with permission of the Department Chair.

Subject Areas for Transfer Opportunities: By appropriate course selection in consultation with a faculty advisor, students pursuing the A.A.S. Business Administration degree may prepare for transfer to upper-division study in the subject areas listed: Business Administration, Management, and Marketing.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ENG 101 Composition I (3)
- ACC 101 Principles of Financial Accounting (4)
- BUS 120 Introduction to Business (3) OR BUS 124 Organizational Behavior (3)
- Computer Science (CSC) Elective (3)
- Mathematics Elective (3)

Second Semester (16-17 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- ACC 102 Principles of Managerial Accounting (4)
- Mathematics Elective (3-4) OR Science Elective (3-4)
- Business Elective (3)
- General Elective (3)

Third Semester (16 Credit Hours)

- BUS 222 Marketing (3)
- BUS 123 Business Communications (3)
- BUS 227 Business Law (3)
- ECO 210 Principles of Macroeconomics (3)
- Business Elective (3)
- Health/Physical Education (HPE) Elective (1)

Fourth Semester (16 Credit Hours)

- COM 100 Human Communication (3) OR COM 110 Public Speaking (3) OR COM 115 Interpersonal Communication (3)
- ECO 211 Principles of Microeconomics (3)
- Business Elective (3)
- Business Elective (3)
- General Elective (3)
- Health/Physical Education (HPE) Elective (1)

Chemical Dependency Counseling

The Degree

Associate in Applied Science (A.A.S.)

The Program

If you envision yourself in a career helping others who suffer from substance use disorders, earning your degree in Chemical Dependency Counseling from FLCC will prepare you for a position that utilizes your positive influence to create positive change for others. Our program provides you the concepts, knowledge, and skills that are required by the Office of Addiction Services and Supports (OASAS). With your degree, you will be prepared for your New York State trainee credential, and for the credentialing examination.

Program Learning Outcomes

Upon completion of this degree program, students will be able to demonstrate:

- Demonstrate the ability to conduct biopsychosocial evaluations, recognize symptoms of substance use disorders, and make a diagnosis.
- Demonstrate the ability to facilitate group sessions that simulate education and treatment sessions for clients with substance use disorder.
- Model professional and ethical behaviors expected by the Office of Addiction Services and Supports of a Credentialed Alcohol and Substance Abuse Counselor.
- Exhibit the skills necessary to establish a therapeutic relationship.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than (2.0) and earn a minimum of C- in CDC 102 Concepts of Chemical Dependency I, CDC 103 Concepts of Chemical Dependency II, CDC 115 Issues in Ethics for Chemical Dependency Counselors, CDC 200 Addiction Counseling, CDC 210 Field Experience Practicum I, CDC 211 Field Experience Practicum II, HUS 150 Interviewing and Counseling, PSY 100 Introduction to Psychology, and PSY 220 Abnormal Psychology. For this degree program, you must successfully complete the following:

Core Requirements

- CDC 102 Concepts of Chemical Dependency I
- CDC 103 Concepts of Chemical Dependency II
- CDC 104 CDC First Year Experience
- CDC 115 Issues in Ethics for Chemical Dependency Counselors
- CDC 200 Addiction Counseling
- CDC 210 Field Experience Practicum I

- CDC 211 Field Experience Practicum II

General Education

- COM 100 Human Communication
- ENG 101 Composition I
- ENG 103 Composition II
- HUS 150 Interviewing and Counseling
- PSY 100 Introduction to Psychology
- PSY 220 Abnormal Psychology
- SOC 100 Introduction to Sociology
- 3 credits Computer Science Electives (CSC 134 Core Word, CSC 135 Core Excel, CSC 136 PowerPoint recommended)
- 3 credits of History (HIS) or Political Science (POL) Elective
- 3 credits of SUNY General Education approved course in World (Foreign) Language
- 10 credits of SUNY General Education approved courses in Mathematics and Natural Sciences
- 2 credit hours of Health/Physical Education (HPE) Elective

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit Hours)

- CDC 102 Concepts of Chemical Dependency I (3)
- CDC 104 CDC First Year Experience (2)
- COM 100 Human Communication (3)
- ENG 101 Composition I (3)
- PSY 100 Introduction to Psychology (3)
- Health/Physical Education (HPE) Elective (1)

Second Semester (18 Credit Hours)

- CDC 103 Concepts of Chemical Dependency II (3)
- CDC 115 Issues in Ethics for Chemical Dependency Counselors (3)
- ENG 103 Composition II (3)
- HUS 150 Interviewing and Counseling (3)
- SOC 100 Introduction to Sociology (3)
- SUNY General Education approved course in Mathematics or Natural Science* (3)

Third Semester (16 Credit Hours)

- CDC 200 Addiction Counseling (3)
- CDC 210 Field Experience Practicum I (4)
- PSY 220 Abnormal Psychology (3)
- SUNY General Education approved course in World (Foreign) Language (3)
- SUNY General Education approved course in Mathematics or Natural Science* (3)

Fourth Semester (15 Credit Hours)

- CDC 211 Field Experience Practicum II (4)
- Computing Science Elective (3)
- History (HIS) or Political Science (POL) Elective (3)
- SUNY General Education approved course in Mathematics or Natural Science* (4)
- Health/Physical Education (HPE) Elective (1)

* Students are required to take at least one course from each category, Mathematics and Natural Sciences.

Criminal Justice

The Degree

Associate in Applied Science (A.A.S.)

The Program

As a Criminal Justice student, you'll gain a strong background in statutory, procedural, and constitutional law. Our degree program teaches you how to communicate effectively with professionals in criminal justice and related agencies. Throughout your studies, you'll experience courses in criminal law, corrections, probation practices, law enforcement, parole, and youth or community service. Your core classes will feature a strong framework of courses in criminal justice—which will provide you the knowledge and critical thinking skills that are necessary for a successful future in this field.

Program Learning Outcomes

Upon completion of this degree program, students will be able to demonstrate:

- Knowledge of the component parts of the Criminal Justice System.
- Knowledge and understanding of the procedural safeguards in the adjudication of a criminal matter.
- Knowledge of the four (4) major areas of jurisdiction of the New York State Family Court and the procedural steps in each area.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0).

Each full-time Criminal Justice student with a minimum 2.5 GPA must take one six-credit course in Cooperative Education during the third or fourth semester. (Those students who do not have a minimum 2.5 GPA will be required to take six additional credit hours in criminal justice courses.) Based on your area of career choice, you will be assigned to an agency or department within FLCC's service area. Cooperative Education is offered during the Spring and Fall Semesters. For this degree program, you must successfully complete the following:

Humanities

- COM 110 Public Speaking
- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature

Social Science

- PSY 100 Introduction to Psychology
- SOC 100 Introduction to Sociology
- 6 credit hours of Social Science Electives

Mathematics and Science

- 3 credit hours of Mathematics Electives
- 6 credit hours of Science Electives

Criminal Justice

- CJC 100 Introduction to Criminal Justice
- CJC 117 Issues in Constitutional Law
- CJC 200 Cooperative Education OR 6 credit hours of Criminal Justice (CJC) Electives
- CJC 210 Family Court
- CJC 105 Criminal Law OR CJC 110 Criminal Procedure Law

The balance of Criminal Justice courses will be selected from the following courses in consultation with an advisor. A total of 27 credit hours in Criminal Justice courses is required.

- CJC 105 Criminal Law OR CJC 110 Criminal Procedure Law
- CJC 115 Law of Evidence
- CJC 120 Corrections Procedure
- CJC 125 Juvenile Justice
- CJC 130 Probation Administration
- CJC 205 Philosophy of Criminal Investigation
- CJC 212 Introduction to Criminalistics
- CJC 215 Current Practices in Corrections
- CJC 220 Contemporary Practices in Probation
- CJC 225 Police Community Relations
- CJC 227 Introduction to Terrorism

Health/Physical Education

- 4 credit hours of Health/Physical Education (HPE) Electives

Electives

- The remainder of required hours must be made up of approved electives.

Subject Areas For Transfer Opportunities

As a student of the A.A.S. Criminal Justice degree program, you can select courses that reflect your interests and goals. Learn more about the Transfer Articulation Agreements by visiting www.flcc.edu/transfer.

By appropriate course selection in consultation with a faculty advisor, students pursuing the A.A.S. Criminal Justice degree may prepare for transfer to upper-division study in the subject areas that include Police Science, Probation Assistant, Youth/Community Service and Corrections Officer.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ENG 101 Composition I (3)
- CJC 100 Introduction to Criminal Justice (3)
- CJC 105 Criminal Law (3)
- PSY 100 Introduction to Psychology (3)
- SOC 100 Introduction to Sociology (3)
- Health/Physical Education (HPE) Elective (1)

Second Semester (16 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- CJC 110 Criminal Procedure Law (3)
- CJC 117 Issues in Constitutional Law (3)
- Mathematics Elective (3)
- Health/Physical Education (HPE) Elective (1)
- Social Science Elective (3)

Third Semester (16-17 Credit Hours)

- CJC 200 Cooperative Education (6) OR Criminal Justice (CJC) Electives (6)
- Criminal Justice (CJC) Elective (3)
- Health/Physical Education (HPE) Elective (1)
- Science Elective (3-4)
- Social Science Elective (3)

Fourth Semester (16-17 Credit Hours)

- COM 110 Public Speaking (3)
- CJC 210 Family Court (3)
- Criminal Justice (CJC) Elective (3)
- General Elective (3)
- Health/Physical Education (HPE) Elective (1)
- Science Elective (3-4)

Culinary Arts

The Degree

Associate in Applied Science (A.A.S.)

The Program

Pursuing our degree program in Culinary Arts will equip you with a foundation of knowledge in culinary arts and wine and beverage education. Combined with a solid core curriculum, you'll attain practical kitchen management skills in the classroom, which will make you marketable to employers. As a student in this program, you'll experience your culinary lab courses at the modern New York Kitchen—which is just a short distance from our main campus. Taking your lab classes at this center will provide you hands-on experience in a real-world setting. You will also gain extensive hands-on training through a required professional work experience that taps into the knowledge of experts in the vibrant culinary and tourism industries of the Finger Lakes region.

Program Learning Outcomes

Upon completion of the A.A.S. Culinary Arts program, students will be able to:

- Consistently model standards of culinary professionalism.
- Apply universal quality standards for raw ingredients as well as finished products.
- Prescribe appropriate principles of cooking and preparation of food products.
- Demonstrate ancillary skills including cost control, food service sanitation, and front of the house service according to accepted industry best practices.
- Transition from working as an individual to working as contributing member of a vibrant, functional team.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- CUL 100 Culinary Fundamentals
- CUL 105 Culinary Fundamentals Lab
- CUL 110 Intermediate Culinary Applications
- CUL 115 Intermediate Culinary Applications Lab
- CUL 120 Foodservice Sanitation
- CUL 140 Beverage Fundamentals
- CUL 190 Food and Beverage Cost Controls

- CUL 200 Garde Manger and International Cuisine
- CUL 205 Garde Manger Lab
- CUL 255 Culinary Restaurant Practicum
- CUL 270 Hospitality Management Seminar
- HOS 105 Orientation to Hospitality
- Non-credit Program Requirement: 600 hours of Work Experience*

General Education

- COM 100 Human Communication or COM 110 Public Speaking
- ENG 101 Composition I
- ENG 103 Composition II
- NS 115 Introduction to Nutrition
- 3 credits SUNY General Education approved course in World (Foreign) Language
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 3 credits SUNY General Education approved course in Mathematics (MAT 110 Mathematics of Money recommended)

Electives

- CSC 135 Core Excel
- HPE 214 Advanced First Aid, CPR and AED
- 3 credits Liberal Arts and Sciences Elective
- 8 credits Approved Electives

* Students are also required to complete 600 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or 585-785-1792.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 credit hours)

- ENG 101 Composition I (3)
- CUL 100 Culinary Fundamentals (3)
- CUL 105 Culinary Fundamentals Lab (1)
- CUL 120 Foodservice Sanitation (1)

- CUL 140 Beverage Fundamentals (3)
- HOS 105 Orientation to Hospitality (1)
- HPE 214 Advanced First Aid, CPR and AED (3)
- Professional Work Experience*

Second Semester (17 credit hours)

- ENG 103 Composition II (3)
- CUL 110 Intermediate Culinary Applications (3)
- CUL 115 Intermediate Culinary Application Lab (1)
- CUL 190 Food and Beverage Cost Controls (3)
- CSC 135 Core Excel (1)
- NS 115 Introduction to Nutrition (3)
- SUNY General Education approved course in World (Foreign) Language (3)
- Professional Work Experience*

Third Semester (17 credit hours)

- COM 100 Human Communication OR COM 110 Public Speaking (3)
- CUL 200 Garde Manger and International Cuisine (3)
- CUL 205 Garde Manger Lab (1)
- CUL 255 Culinary Restaurant Practicum (5)
- SUNY General Education approved course in Mathematics (3)
- Approved Electives (2)
- Professional Work Experience*

Fourth Semester (15 credit hours)

- CUL 270 Hospitality Management Seminar (3)
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- Liberal Arts Elective (3)
- Approved Electives (6)
- Professional Work Experience*

* Students are also required to complete 600 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or 585-785-1792.

Emergency Medical Technician – Paramedic

The Degree

Associate in Applied Science (A.A.S.)

The Program

The A.A.S. EMT-Paramedic degree program will prepare you for a career in the emergency medical field. This associate degree builds on the courses that are offered in the certificate program, and it is intended to broaden your knowledge of the field in paramedicine.

This program includes additional coursework in oral and written communication, science, math and psychology. Throughout your studies, you will gain a greater educational background to integrate theory and practice. As a pre-hospital care provider, paramedics must learn to adapt to the ever-changing trends in healthcare and technology. This degree will provide you with practice in paramedicine and the associated sciences. Additionally, it will teach you the communication skills necessary for being an effective successful paramedic.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Integrate comprehensive knowledge of the EMS systems, safety/well-being of the paramedic and medical/legal and ethical issues, which is intended to improve the health of EMS personnel, patients and community.
- Integrate knowledge of anatomy, physiology and pathophysiology of the entire body along with the knowledge of pharmacology and its effects to the patient.
- Demonstrate knowledge of anatomy, physiology and pathophysiology into the assessment to develop and implement a treatment plan with the goal of assuring a patent airway, adequate mechanical ventilations and respiration for patients of all ages.
- Analyze scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression. This includes developing a list of differential diagnoses through clinical reasoning to modify the assessment and formulate a treatment plan.
- Integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for a patient with medical complaint.
- Demonstrate comprehensive knowledge of causes and pathophysiology into the management of cardiac arrest and peri-arrest states.
- Demonstrate a comprehensive knowledge of the causes and pathophysiology into the management of shock, respiratory failure or arrest with an emphasis on early intervention to prevent arrest.
- Integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a comprehensive treatment/disposition plan for an acutely injured patient.

- Integrate assessment findings with principles of pathophysiology and knowledge of psychosocial needs to formulate a field impression and implement a comprehensive treatment/disposition plan for patients with special needs.
- Demonstrate knowledge of operational roles and responsibilities to ensure safe patient, public and personnel safety.

Curriculum Requirements

Before entering this program, you should already be certified as a New York State Emergency Medical Technician at the basic level. This degree program builds on the courses offered in FLCC's EMT certificate program and offers broadened knowledge of the field in paramedicine.

As a student in this program, you are required to complete a minimum of 63 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Humanities

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- COM 110 Public Speaking OR COM 115 Interpersonal Communication

Social Science

- PSY 100 Introduction to Psychology
- 3 credit hours of Social Science Electives

Mathematics and Science

- MAT 110 Mathematics of Money
- BIO 110 Fundamentals of Human Anatomy and Physiology OR BIO 115 Human Biology

Emergency Medical Services

- EMCR 125 EMS Management
- EMCR 195 Paramedic I
- EMCR 196 Paramedic II
- EMCR 200 Emergency Medical Technician with Defibrillation

Health/Physical Education

- 1 credit hour of Health/Physical Education (HPE) Elective

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit Hours)

- ENG 101 Composition I (3)
- COM 110 Public Speaking (3) OR COM 115 Interpersonal Communication (3)
- EMCR 200 EMT with Defibrillation (6)
- MAT 110 Mathematics of Money (3)

Second Semester (16 Credit Hours)

- EMCR 195 Paramedic I (16)

Third Semester (16 Credit Hours)

- EMCR 196 Paramedic II (16)

Fourth Semester (16 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- BIO 110 Fundamentals of Human Anatomy and Physiology (3) OR BIO 115 Human Biology (4)
- EMCR 125 EMS Management (3)
- PSY 100 Introduction to Psychology (3)
- Social Science Elective (3)
- Health/Physical Education (HPE) Elective (1)

Environmental Conservation Law Enforcement

The Degree

Associate in Applied Science (A.A.S.)

The Program

A.A.S. Environmental Conservation Law Enforcement is a unique program that prepares students for civil service in New York State. With a focus on growing students' knowledge and respect for nature, courses guide students to a thorough understanding of New York State law, identification of fish and wildlife, and niche analysis. The program emphasizes wildlife conservation ethics, responsibility, and career readiness to move students from awareness to action. Law enforcement classes are taught by professionals. Professors guide students in comprehensive career exploration for a variety of careers in law enforcement such as forest rangers, park police, environmental conservation officers, and a range of compliance jobs. The program provides the necessary course work for the civil service exam.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Interpret the Environmental Conservation Law (ECL) for New York State and select federal environmental regulations.
- Earn the minimum educational qualifications to apply for and Environmental Conservation Officer (ECO) position in NY State.
- Explain foundational principles of natural resource management.
- Develop fundamental conservation law enforcement skills (eg. Communication, documentation, report preparation, map interpretation).

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0).

The conservation field camp course (CON 190) is designed to provide intense field experiences in conservation and recreation. The camp is held in May, immediately after the spring semester, and runs for one week. This course is required and should be taken as early as possible.

For this degree program, you must successfully complete the following:

Program Core

- BIO/CON 103 Environmental Science

- BIO 121 General Biology or BIO 125 Foundations of Life Science
- BIO 221/CON 202 Principles of Terrestrial and Aquatic Ecology
- CON 100 First Year Experience in Conservation
- CON 102 Introduction to Fish and Wildlife
- CON 118 Introduction to Natural Resources Conservation
- CON 190 Conservation Field Camp
- CON 233 Laws for the Use and Protection of Water and Land Resources
- CON 234 Laws for the Management of Air Resources, Solid Waste and Hazardous Substances
- CON/GIS 241 Introduction to Geographic Information Systems
- CON 245 Environmental Conservation Capstone
- WFS 100 Land Navigation
- 9 Credit hours of Conservation Electives*

General Education

- COM 110 Public Speaking
- CSC 134 Core Word
- CSC 135 Core Excel
- CSC 136 PowerPoint
- ENG 101 Composition I
- ENG 103 Composition II
- HPE 124 Criminal Justice Physical Conditioning
- 1 credit hour of Health and Physical Education (HPE) elective
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 3 credit hours of SUNY General Education approved course in Social Sciences
- 3 credit hours of SUNY General Education approved course in Mathematics

*Any course with a CON prefix or CJC 105 Criminal Law I may be taken to fulfill the Conservation Electives.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ENG 101 Composition I (3)
- BIO/CON 103 Environmental Science (4)
- CON 100 First Year Experience in Conservation (3) or CON 102 Introduction to Fish and Wildlife (3)
- CON 118 Introduction to Natural Resource Law (3)
- CSC 134 Core Word (1)

- CSC 135 Core Excel (1)
- CSC 136 PowerPoint (1)

Second Semester (16 Credit Hours)

- ENG 103 Composition II (3)
- COM 110 Public Speaking (3)
- CON 100 First Year Experience in Conservation (3) or CON 102 Introduction to Fish and Wildlife (3)
- BIO 121 General Biology (3) or BIO 125 Foundations of Life Science (4)
- SUNY General Education approved course in Mathematics (3)

Summer Session (1 Credit Hour)

- CON 190 Conservation Field Camp (1)

Third Semester (15 Credit Hours)

- BIO 221/CON 202 Principles of Terrestrial and Aquatic Ecology (3) OR Conservation Electives (3)
- CON 233 Laws for the Use and Protection of Water and Land Resources (3)
- CON/GIS 241 Introduction to Geographic Information Systems (3)
- WFS 100 Land Navigation (1)
- HPE 124 Criminal Justice Physical Conditioning (1)
- HPE Elective (1)
- SUNY General Education approved course in Social Sciences (3)

Fourth Semester (16 Credit Hours)

- BIO 221/CON 202 Principles of Terrestrial and Aquatic Ecology (3) OR Conservation Electives (3)
- CON 234 Laws for the Management of Air Resources, Solid Waste and Hazardous Substances (3)
- CON 245 Environmental Conservation Capstone (1)
- Conservation Electives or CJC 105 Criminal Law 1 (3)
- Conservation Electives or CJC 105 Criminal Law 1 (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)

Fish and Wildlife Technology

The Degree

Associate in Applied Science (A.A.S.)

The Program

If you're interested in fish and wildlife, the Finger Lakes region provides an exceptional outdoor classroom. Fisheries field experiences are conducted on and off campus on a variety of freshwater bodies including streams, ponds, and lakes. Currently, FLCC owns six research vessels, including a state-of-the-art electrofishing boat.

Wildlife experiences take place primarily on the main campus and the College's two field stations.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Identify predominant regional species (e.g. plant, fish, mammal, bird) and their natural histories.
- Apply ethical principles for treatment of animals.
- Apply best management principles (BMPs) for the management of natural resources.
- Practice essential career skills (e.g. operate equipment) commonly used in the natural resources field.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- BIO 121 General Biology I
- BIO 122 General Biology II
- CON 100 First Year Experience in Conservation
- CON 102 Introduction to Fish and Wildlife
- BIO/CON 103 Environmental Science OR CHM 121 General Chemistry I
- CON 113 Wildlife Field Techniques
- CON 116 Fisheries Techniques
- BIO 221/CON 202 Principles of Terrestrial and Aquatic Ecology
- CON 214 Fisheries Management OR CON 216 Wildlife Management
- CON/GIS 241 Introduction to Geographic Information Systems
- CON 245 Environmental Conservation Capstone
- 9 credit hours of Approved Electives

General Education

- CSC 134 Core Word
- CSC 135 Core Excel
- CSC 139 MS Access
- ENG 101 Composition I
- ENG 103 Composition II
- COM 110 Public Speaking
- MAT 121 Introductory Statistics I OR MAT 145 Survey of Functions I
- 3 credit hours of SUNY General Education approved course in Social Science
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations

Approved Electives

- CON 118 Introduction to Natural Resources Law
- CON 214 Fisheries Management
- CON 216 Wildlife Management
- CON 218 Fish Culture Techniques
- CON 219 Introduction to Aquaculture
- BIO/CON 224 Dendrology and Field Botany
- CON 226 Fisheries Field Assessment
- CON 229 Stream Ecology
- CON 233 Laws for the Use & Protection of Water & Land Resources
- CON 234 Laws for the Management of Air Resources, Solid Waste, and Hazardous Substances
- CON 235 Wetland Science and Practice
- CON 236 Wetland Mammals
- CON 237 Black Bear Management I
- CON 238 Black Bear Management II
- CON 242 Field Study of Birds
- BIO/CON 246 Limnology

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ENG 101 Composition I (3)
- BIO 121 General Biology I (4)
- CON 100 First Year Experience in Conservation (3)

- CON 102 Introduction to Fish and Wildlife (3)
- CON 113 Wildlife Field Techniques (3) or CON 116 Fisheries Techniques (3)

Second Semester (17 Credit Hours)

- BIO 122 General Biology II (4)
- BIO/CON 103 Environmental Science (4)
- CON 113 Wildlife Field Techniques (3) or CON 116 Fisheries Techniques (3)
- ENG 103 Composition II (3)
- MAT 121 Introductory Statistics I or MAT 145 Survey of Functions I (3)

Third Semester (15 Credit Hours)

- BIO 221/CON 202 Principles of Terrestrial and Aquatic Ecology (3)
- COM 110 Public Speaking (3)
- CON Elective (3)
- CSC 134 Core Word (1)
- CSC 135 Core Excel (1)
- CSC 139 MS Access (1)
- SUNY General Education approved course in Social Sciences (3)

Fourth Semester (16 Credit Hours)

- CON Elective (3)
- CON Elective (3)
- CON 214 Fisheries Management OR CON 216 Wildlife Management (3)
- CON/GIS 241 Introduction to Geographic Information Systems (3)
- CON 245 Environmental Conservation Capstone (1)
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)

Graphic Design

The Degree

Associate in Applied Science (A.A.S.)

The Program

Pursuing your degree in Graphic Design at FLCC provides you a strong educational background in art and design, preparing you for the many career and transfer opportunities that are available in this dynamic field. In the classroom, you'll work one-on-one with students and faculty, and explore the visual arts with a focus on foundation drawing, 2-D and 3D design, and art history. The core courses in this program offer a rounded approach to visual communication through the practice of creating visual work from conceptualization to production. As a graduate, you'll leave here with your own personal portfolio, which showcases your design work and makes you marketable to employers.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Exhibit talent, skill, growth and mastery in the field of graphic design.
- Articulate the look, feel, and technical proficiency of their designs and personal aesthetic, and communicate in a way that suggests their understanding of current design trends and societal values.

Students' body of work will exhibit a technical competency which clearly illustrates a solid understanding of how to implement the computer as an artistic tool.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Humanities

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- COM 100 Human Communication OR COM 110 Public Speaking

Social Science

- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization

- Other World Civilizations

Mathematics and/or Science

- 3 credit hours of SUNY General Education approved course in Mathematics
- 3 credit hours of SUNY General Education approved course in Natural Sciences

Art and Graphic Design

- ART 100 Art History: Prehistory to Middle Ages
- ART 101 Art History: Renaissance to Modern Art
- ART 102 Foundation Drawing I
- ART 103 Foundation Drawing II
- ART 104 Design I
- ART 105 Design II
- ART 109 Art Portal
- ART 115 Computer Imaging
- ART 116 Computer Publishing
- ART 215 Graphic Design I
- ART 216 Graphic Design II
- ART 220 Graphic Illustration OR ART 222 Design for the Web
- ART 251 Portfolio Prep
- 6 credit hours of approved Art Electives*
- 3 credit hours of General Electives

Health/Physical Education Electives

- 1 credit hour of Health/Physical Education (HPE) Electives

Notes

* Approved Art Electives

- ART 106 Ceramics I
- ART 110 Digital Photography
- ART 200 Figure Drawing I
- ART 201 Figure Drawing II
- ART 202 Painting I
- ART 204 Painting II
- ART 205 Modeling and Sculpture I
- ART 206 Modeling and Sculpture II
- ART 209 Printmaking
- ART 212 Ceramics II
- ART 218 Advanced Digital Photography Methods
- ART 221 Advanced Drawing

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit Hours)

- ENG 101 Composition I (3)
- ART 100 Art History: Prehistory to Middle Ages (3)
- ART 102 Foundation Drawing I (3)
- ART 104 Design I (3)
- ART 109 Art Portal (2)
- SUNY General Education approved course in Natural Sciences (3)

Second Semester (16 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- ART 101 Art History: Renaissance to Modern Art (3)
- ART 103 Foundation Drawing II (3)
- ART 105 Design II (3)
- SUNY General Education approved course in Mathematics (3)
- Health/Physical Education (HPE) Elective (1)

Third Semester (16 Credit Hours)

- ART 115 Computer Imaging (3)
- ART 215 Graphic Design I (3)
- ART 251 Portfolio Prep (1)
- Approved Art Elective (3)
- COM 100 Human Communication OR COM 110 Public Speaking (3)
- General Electives (3)

Fourth Semester (15 Credit Hours)

- ART 116 Computer Publishing (3)
- ART 216 Graphic Design II (3)
- ART 220 Graphic Illustration (3) OR ART 222 Design for the Web (3)
- Approved Art Elective (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)

Horticulture

The Degree

Associate in Applied Science (A.A.S.)

The Program

Earning your degree in Horticulture provides you a strong base in the science of plant growth, equipping you with the knowledge that will prepare you for employment opportunities in the horticulture field. In our degree program, you'll experience courses in a variety of areas that range from introduction to horticulture to environmental science, and from plant materials to plant structure and function. Whatever your career goals are, your degree will give you the opportunity to apply your knowledge to the many specialty areas that are in this field such as nursery management, landscape design and installation, plant research, gardening, tree care, or environmental restoration.

Program Learning Outcomes

Upon completion of the A.A.S. Horticulture program, students will be able to:

- Analyze the impacts that horticultural practices have on the environment.
- Identify (landscape) plants while integrating site analysis.
- Develop and apply professional techniques (e.g. soils, pruning, planting, maintenance, IPM, technical writing).
- In a field setting, associate plant structure and function with plant health.

Curriculum Requirements

Students are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- AGR 100 Soil Science
- BIO/CON 103 Environmental Science
- BIO 221/CON 202 Principles of Terrestrial and Aquatic Ecology
- BIO 251 Plant Structure and Function
- HRT 110 Introduction to Horticulture
- HRT 150 Herbaceous Plant Materials
- HRT 151 Woody Plant Materials
- HRT 220 Field Experiences in Horticulture
- HRT 260 Applied Plant Pathology with Integrated Pest Management
- HRT 280 Field Entomology with Integrated Pest Management

General Education

- BIO 121 General Biology I OR BIO 125 Foundations of Life Science
- CSC 135 Core Excel
- ENG 101 Composition I
- ENG 103 Composition II
- 3 credits SUNY General Education approved course in Mathematics
- 3 credits SUNY General Education approved course in Basic Communication: Oral
- 3 credits SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 3 credits SUNY General Education approved course in Social Sciences

Approved Electives

Choose 8 credits from the following courses:

- CON/GIS 130 Introduction to Geographic Information Systems
- CON/GIS 227 Applications of Global Positioning Systems
- CON 235 Wetland Science and Practice
- HRT 111 Tree Culture and Maintenance
- HRT 130 Introduction to Floriculture
- HRT 131 Floral Design
- HRT 135 Regulations of Cannabis Cultivation
- HRT 160 Unique Horticulture Facilities
- HRT 201 Landscape Design I
- HRT 202 Landscape Construction and Maintenance
- HRT 203 Turf Management
- HRT 204 Plant Propagation and Nursery Management
- HRT 210 Landscape Design II
- HRT 221 Horticulture Topics I
- HRT 222 Horticulture Topics II
- HRT 223 Horticulture Topics III
- HRT 230 Certified Applicator Training
- HRT 235 Cannabis: Biology to Industrial Application
- HRT 236 Cannabis Cultivation
- VIT 100 Introduction to Wines and Vines
- VIT 105 Basic Viticulture Techniques

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit hours)

- AGR 100 Soil Science (3)
- BIO 121 General Biology I (4) OR BIO 125 Foundations of Life Science (4)
- CSC 135 Core Excel
- ENG 101 Composition I (3)
- HRT 150 Herbaceous Plant Materials (3)
- HRT 110 Introduction to Horticulture (3)

Second Semester (17 Credit hours)

- BIO/CON 103 Environmental Science (4)
- BIO 251 Plant Structure and Function (4)
- ENG 103 Composition II (3)
- HRT 151 Woody Plant Materials (3)
- SUNY General Education approved course in Basic Communication: Oral (3)

Third Semester (14 Credit hours)

- HRT 260 Applied Plant Pathology with Integrated Pest Management (4)
- HRT 280 Field Entomology with Integrated Pest Management (4)
- SUNY General Education approved course in Mathematics (3)
- Approved Elective (3)

Fourth Semester (16 Credit hours)

- BIO 221/CON 202 Principles of Terrestrial and Aquatic Ecology (3)
- HRT 220 Field Experiences in Horticulture (2)
- Approved Elective (3)
- Approved Elective (2)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- SUNY General Education approved course in Social Sciences (3)

Horticulture: Cannabis Biology and Cultivation Track

The Degree

Associate in Applied Science (A.A.S.)

The Program

FLCC's Cannabis Biology and Cultivation Track explores the biology and cultivation of the cannabis plant by diving into its history, breeding, chemistry and medicinal application. Students with a plant science background will find this track useful to gaining a holistic view of cannabis and its impact on society. The A.A.S. in Horticulture: Cannabis Biology and Cultivation Track is comprised of 3-courses, including Biology to Industrial Application, Regulations of Cannabis Cultivation, and Cannabis Cultivation. Each course builds on the next, helping students understand the legal issues and federal laws related to cannabis production, effective management and distribution practices, and consumption by medical patients. Finally, students will receive practical greenhouse experience using industrial hemp and cover topics like cannabis life cycle, growing and harvesting techniques, and pest management.

Program Learning Outcomes

Upon completion of the A.A.S. Horticulture: Cannabis Track program, students will be able to:

- Analyze the impacts that horticultural practices have on the environment.
- Identify (landscape) plants while integrating site analysis.
- Develop and apply professional techniques (e.g. soils, pruning, planting, maintenance, IPM, technical writing).
- In a field setting, associate plant structure and function with plant health.
- Describe regulations, cultivation, and biology of cannabis.

Curriculum Requirements

Students are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- AGR 100 Soil Science
- BIO 251 Plant Structure and Function
- HRT 110 Introduction to Horticulture
- HRT 135 Regulations of Cannabis Cultivation
- HRT 150 Herbaceous Plant Materials

- HRT 151 Woody Plant Materials
- HRT 220 Field Experiences in Horticulture
- HRT 235 Cannabis: Biology to Industrial Application
- HRT 236 Cannabis Cultivation
- HRT 260 Applied Plant Pathology with Integrated Pest Management
- HRT 280 Field Entomology with Integrated Pest Management

General Education

- BIO 121 General Biology I OR BIO 125 Foundations of Life Science
- CSC 135 Core Excel
- ENG 101 Composition I
- ENG 103 Composition II
- 3 credits of SUNY General Education approved course in Mathematics
- 3 credits SUNY General Education approved course in Basic Communication: Oral
- 3 credits SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 3 credits SUNY General Education approved course in Social Sciences
- 3 credits Approved Elective or BUS 147 Small Business Management
- 3 credits Approved Elective

Approved Electives

Choose 3-6 credits from the following courses:

- CON 235 Wetland Science and Practice
- CON/GIS 241 Introduction to Geographic Information Systems
- HRT 111 Tree Culture and Maintenance
- HRT 131 Floral Design
- HRT 160 Unique Horticulture Facilities
- HRT 201 Landscape Design I
- HRT 202 Landscape Construction and Maintenance
- HRT 203 Turf Management
- HRT 204 Plant Propagation and Nursery Management
- HRT 210 Landscape Design II
- HRT 230 Certified Applicator Training
- VIT 100 Introduction to Wines and Vines
- VIT 105 Basic Viticulture Techniques

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit hours)

- AGR 100 Soil Science (3)
- BIO 121 General Biology I or BIO 125 Foundations of Life Science (4)
- CSC 135 Core Excel (1)
- HRT 110 Introduction to Horticulture (3)
- HRT 135 Regulations in the Cannabis Industry (3)
- HRT 150 Herbaceous Plant Materials (3)

Second Semester (16 Credit hours)

- ENG 101 Composition I (3)
- BIO 251 Plant Structure and Function (4)
- HRT 235 Biology of Cannabis (3)
- HRT 151 Woody Plant Materials (3)
- SUNY General Education approved course in Basic Communication: Oral (3)

Third Semester (17 Credit hours)

- ENG 103 Composition II (3)
- HRT 260 Applied Plant Pathology with Integrated Pest Management (4)
- HRT 280 Field Entomology with Integrated Pest Management (4)
- Approved Elective or BUS 147 Small Business Management. (3)
- SUNY General Education approved course in Mathematics (3)

Fourth Semester (14 Credit hours)

- HRT 220 Field Experiences in Horticulture (2)
- HRT 236 Cannabis Cultivation (3)
- Approved Elective (3)
- SUNY General Education approved course in one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- SUNY General Education approved course in Social Sciences (3)

Approved Electives:

- CON 235 Wetland Science and Practice
- CON/GIS 241 Introduction to Geographic Information Systems
- HRT 111 Tree Culture and Maintenance

- HRT 131 Floral Design
- HRT 160 Unique Horticulture Facilities
- HRT 201 Landscape Design I
- HRT 202 Landscape Construction and Maintenance
- HRT 203 Turf Management
- HRT 204 Plant Propagation and Nursery Management
- HRT 210 Landscape Design II
- HRT 230 Certified Applicator Training
- VIT 100 Introduction to Wines and Vines
- VIT 105 Basic Viticulture Techniques

Hospitality and Tourism Management: Event and Tourism Management Track

The Degree

Associate in Applied Science (A.A.S.)

The Program

As a student in this program, you'll engage in a required professional work experience opportunity, which will provide you with an in-depth understanding of how a hospitality enterprise operates. From hotels to casinos to wineries, there are many organizations that require tourism professionals. You will also gain extensive hands-on training through a required professional work experience that taps into the knowledge of experts in the vibrant culinary and tourism industries of the Finger Lakes region.

Program Learning Outcomes

All students graduating from the A.A.S. in Hospitality and Tourism program will be able to:

- Draw on the “heart of a servant” philosophy to apply the concepts and skills necessary to achieve an outstanding and profitable guest and visitor experience.
- Model professional decorum and work ethic to exceed industry standards.
- Describe the economic impact hospitality and tourism brings to a region.

Additionally, students in this track will be able to:

- Assess how a destination creates a unique sense of place for visitorship.
- Evaluate opportunity for collaboration with community stakeholders.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- ACC 101 Principles of Financial Accounting
- BUS 224 Human Resource Management
- HOS 100 Introduction to Tourism
- HOS 101 Principles of Hotel and Resort Management
- HOS 105 Orientation to Hospitality
- HOS 220 Hospitality Marketing and Sales

- HOS 230 Hospitality Law
- Non-credit Program Requirement: 600 hours of Work Experience*

General Education

- CSC 135 Core Excel
- ECO 210 Principles of Macroeconomics or ECO 211 Principles of Microeconomics
- ENG 101 Composition I
- ENG 103 Composition II
- MAT 121 Introductory Statistics I or MAT 200 Statistics
- SUNY General Education approved course in World (Foreign) Language
- SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- SUNY General Education approved course in Basic Communication: Oral

Tourism Management Track

- CUL 120 Food Service Sanitation
- HOS 160 Bar and Beverage Management
- HOS 215 Sustainable Tourism Planning
- HOS 227 Destination Marketing
- HOS 232 Event Management
- HOS 260 Tourism Seminar
- HPE 214 Advanced First Aid, CPR and AED
- 4 credits Approved electives**

* Students are also required to complete 600 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or (585)785-1792.

** Approved electives are any course with the prefix ACC, BUS, CUL, and HOS.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete.

When planning your schedule, you should consult with your advisor.

First Semester (17 Credit Hours)

- CSC 135 Core Excel (1)
- ENG 101 Composition I (3)
- HOS 100 Introduction to Tourism (3)

- HOS 101 Principles of Hotel and Resort Management (3)
- HOS 105 Orientation to Hospitality (1)
- HPE 214 Advanced First Aid, CPR & AED (3)
- MAT 121 Introductory Statistics I or MAT 200 Statistics (3)
- Professional Work Experience*

Second Semester (16 Credit Hours)

- ACC 101 Principles of Financial Accounting (4)
- ECO 210 Principles of Macroeconomics or ECO 211 Principles of Microeconomics (3)
- ENG 103 Composition II (3)
- HOS 220 Hospitality Marketing and Sales (3)
- SUNY General Education approved course in Basic Communication: Oral (3)
- Professional Work Experience*

Third Semester (17 Credit Hours)

- HOS 160 Bar and Beverage Management (2)
- HOS 215 Sustainable Tourism Planning (3)
- HOS 227 Destination Marketing (3)
- HOS 232 Event Management (3)
- SUNY General Education approved course in World (Foreign) Language (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilization (3)
- Professional Work Experience*

Fourth Semester (14 Credit Hours)

- BUS 224 Human Resource Management (3)
- CUL 120 Food Service Sanitation (1)
- HOS 230 Hospitality Law (3)
- HOS 260 Tourism Seminar (3)
- 4 credits Approved electives**
- Professional Work Experience*

* Students are also required to complete 600 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@ficc.edu or (585)785-1792.

** Approved electives are any course with the prefix ACC, BUS, CUL, and HOS.

Hospitality and Tourism Management: Food and Beverage Management Track

The Degree

Associate in Applied Science (A.A.S.)

The Program

The Food and Beverage Management track delves into the many facets of the industry, including food preparation, food service sanitation, bar management, and beverage operations. Throughout your studies, you'll acquire a solid background in hospitality, culinary arts, and business. Your degree will equip you with hospitality management skills and industry knowledge, preparing you for career and transfer opportunities in food and beverage management. After graduating from FLCC, you may start a career with a catering company or in a restaurant or bar as a foodservice professional. You may also choose to continue your studies in food and beverage management or a related pathway at the four-year level. You will also gain extensive hands-on training through a required professional work experience that taps into the knowledge of experts in the vibrant culinary and tourism industries of the Finger Lakes region.

Program Learning Outcomes

All students graduating from the A.A.S. in Hospitality and Tourism program will be able to:

- Draw on the “heart of a servant” philosophy to apply the concepts and skills necessary to achieve an outstanding and profitable guest and visitor experience.
- Model professional decorum and work ethic to exceed industry standards.
- Describe the economic impact hospitality and tourism brings to a region.

Additionally, students in the Food and Beverage Management track will be able to:

- Incorporate quality food and beverage offerings into a successful guest experience appropriate for the target market.
- Utilize teamwork approach to provide the highest quality guest experience.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- ACC 101 Principles of Financial Accounting
- BUS 224 Human Resource Management
- HOS 100 Introduction to Tourism
- HOS 101 Principles of Hotel and Resort Management

- HOS 105 Orientation to Hospitality
- HOS 220 Hospitality Marketing and Sales
- HOS 230 Hospitality Law
- Non-credit Program Requirement: 600 hours of Work Experience*

General Education

- CSC 135 Core Excel
- ECO 210 Principles of Macroeconomics or ECO 211 Principles of Microeconomics
- ENG 101 Composition I
- ENG 103 Composition II
- MAT 121 Introductory Statistics I or MAT 200 Statistics
- SUNY General Education approved course in World (Foreign) Language
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- SUNY General Education approved course in Basic Communication: Oral

Food and Beverage Management Track

- CUL 100 Culinary Fundamentals
- CUL 105 Culinary Fundamentals Lab
- CUL 120 Foodservice Sanitation
- CUL 140 Beverage Fundamentals
- CUL 190 Food and Beverage Cost Controls
- CUL 255 Culinary Restaurant Practicum
- HOS 160 Bar and Beverage Management
- HPE 111 First Aid and Basic Life Support
- 3 credit Approved Elective**

* Students are also required to complete 600 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or (585)785-1792.

** Approved electives are any course with the prefix ACC, BUS, CUL, and HOS.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit Hours)

- ENG 101 Composition I (3)
- HOS 100 Introduction to Tourism (3)
- HOS 101 Principles of Hotel and Resort Management (3)
- HOS 105 Orientation to Hospitality (1)
- HPE 111 First Aid and Basic Life Support (1)
- MAT 121 Introductory Statistics I or MAT 200 Statistics (3)
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- Professional Work Experience*

Second Semester (16 Credit Hours)

- CUL 100 Culinary Fundamentals (3)
- CUL 105 Culinary Fundamentals Lab (1)
- CUL 190 Food and Beverage Cost Controls (3)
- ENG 103 Composition II (3)
- SUNY General Education approved course in World (Foreign) Language (3)
- SUNY General Education approved course in Basic Communication: Oral (3)
- Professional Work Experience*

Third Semester (16 Credit Hours)

- BUS 224 Human Resource Management (3)
- CSC 135 Core Excel (1)
- CUL 120 Foodservice Sanitation (1)
- CUL 140 Beverage Fundamentals (3)
- CUL 255 Culinary Restaurant Practicum (5)
- HOS 220 Hospitality Marketing and Sales (3)
- Professional Work Experience*

Fourth Semester (15 Credit Hours)

- ACC 101 Principles of Financial Accounting (4)
- ECO 210 Principles of Macroeconomics or ECO 211 Principles of Microeconomics (3)
- HOS 160 Bar and Beverage Management (2)

- HOS 230 Hospitality Law (3)
- Approved Elective (3)**
- Professional Work Experience*

* Students are also required to complete 600 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or (585)785-1792.

** Approved electives are any course with the prefix ACC, BUS, CUL, and HOS.

Hospitality and Tourism Management: Hotel and Resort Management Track

The Degree

Associate in Applied Science (A.A.S.)

The Program

The hotel industry is one of the largest service industries in the world. Travel and tourism play a significant role in fueling the economy in the Finger Lakes region and nationwide, and earning an education in hotel and resort management will get you ready to join this expanding industry; you'll be prepared to pursue career options locally or throughout the country.

This track explores the many facets of the hospitality field, including hotel and resort operations, hospitality marketing, and food, beverage, and restaurant operations. This program combines specific hotel and resort courses with a foundation of hospitality and business courses. You will gain extensive hands-on training through a required professional work experience that taps into the knowledge of experts in the vibrant culinary and tourism industries of the Finger Lakes region.

Program Learning Outcomes

All students graduating from the A.A.S. in Hospitality and Tourism program will be able to:

- Draw on the “heart of a servant” philosophy to apply the concepts and skills necessary to achieve an outstanding and profitable guest and visitor experience.
- Model professional decorum and work ethic to exceed industry standards.
- Describe the economic impact hospitality and tourism brings to a region.

Additionally, students in the Hotel and Resort Management track will be able to:

- Recognize service moments of truth, develop customer service strategies and provide exceptional, individualized, quality guest service.
- Evaluate the synergistic nature of developmental service in the hotel industry.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- ACC 101 Principles of Financial Accounting
- BUS 224 Human Resource Management
- HOS 100 Introduction to Tourism
- HOS 101 Principles of Hotel and Resort Management

- HOS 105 Orientation to Hospitality
- HOS 220 Hospitality Marketing and Sales
- HOS 230 Hospitality Law
- Non-credit Program Requirement: 600 hours of Work Experience*

General Education

- CSC 135 Core Excel
- ECO 210 Principles of Macroeconomics or ECO 211 Principles of Microeconomics
- ENG 101 Composition I
- ENG 103 Composition II
- MAT 121 Introductory Statistics I or MAT 200 Statistics
- SUNY General Education approved course in World (Foreign) Language
- SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- SUNY General Education approved course in Basic Communication: Oral

Hotel and Resort Management Track

- CUL 100 Culinary Fundamentals
- CUL 105 Culinary Fundamentals Lab
- CUL 120 Food Service Sanitation
- CUL 190 Food and Beverage Cost Controls
- HOS 135 Front Office Management
- HOS 160 Bar and Beverage Management
- HOS 232 Event Management
- HPE 111 First Aid and Basic Life Support
- 5 credits Approved electives**

* Students are also required to complete 600 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or (585)785-1792.

** Approved electives are any course with the prefix ACC, BUS, CUL, and HOS.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (18 Credit Hours)

- CUL 190 Food and Beverage Cost Controls (3)
- ENG 101 Composition I (3)
- HOS 100 Introduction to Tourism (3)
- HOS 101 Principles of Hotel & Resort Management (3)
- HOS 105 Orientation to Hospitality (1)
- HOS 160 Bar and Beverage Management (2)
- SUNY General Education approved course in Basic Communication: Oral (3)
- Professional Work Experience*

Second Semester (14 Credit Hours)

- CSC 135 Core Excel (1)
- ENG 103 Composition II (3)
- HOS 135 Front Office Management (3)
- MAT 121 Introductory Statistics I or MAT 200 Statistics (3)
- HPE 111 First Aid and Basic Life Support (1)
- SUNY General Education approved course in World (Foreign) Language(3)
- Professional Work Experience*

Third Semester (16 Credit Hours)

- ACC 101 Principles of Financial Accounting (4)
- BUS 224 Human Resource Management (3)
- CUL 120 Food Service Sanitation (1)
- HOS 220 Hospitality Marketing and Sales (3)
- Approved elective (5)**
- Professional Work Experience*

Fourth Semester (16 Credit Hours)

- CUL 100 Culinary Fundamentals (3)
- CUL 105 Culinary Fundamentals Lab (1)
- ECO 210 Principles of Macroeconomics or ECO 211 Principles of Microeconomics (3)
- HOS 230 Hospitality Law (3)
- HOS 232 Event Management (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)

- Professional Work Experience*

* Students are also required to complete 600 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or (585)785-1792.

** Approved electives are any course with the prefix ACC, BUS, CUL, and HOS.

Marketing

The Degree

Associate in Applied Science (A.A.S.)

The Program

The A.A.S. marketing degree program at Finger Lakes Community College provides several advantages to you. Most of the required business courses have no more than twenty students, providing the opportunity for you and faculty to get to know each other. You can be assured academic advisement is a high priority which will be given to you throughout your program experience. The versatility of the degree will prepare you for a variety of jobs which are readily available upon graduation.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Identify core concepts of marketing and the role of marketing in business and society.
- Apply knowledge of social, legal, ethical and technological forces on marketing decision-making.
- Demonstrate an appreciation for the global nature of marketing and appropriate measures to operate effectively in international settings.
- Demonstrate the ability to develop marketing strategies based on product, price, place and promotion objectives.
- Demonstrate the ability to create an integrated marketing communications plan which includes promotional strategies and measures of effectiveness.
- Demonstrate the ability to communicate the unique marketing mixes and selling propositions for specific product offerings.
- Demonstrate the ability to construct a professional interactive oral sales presentation.
- Demonstrate the ability to formulate marketing strategies that incorporate psychological and sociological factors which influence consumers.
- Demonstrate the ability to collect, process, and analyze consumer data to make informed marketing decisions.
- Demonstrate the ability to analyze marketing problems and provide solutions based on a critical examination of marketing information.
- Demonstrate the ability to apply knowledge and skills to real-world experiences in an internship or job.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Humanities

- ENG 101 Composition I
- ENG 102 Introduction to Reading Literature
- COM 110 Public Speaking

Social Science

- ECO 100 Survey of Economics or higher level Economics
- PSY 100 Introduction to Psychology

Mathematics

- MAT 110 Mathematics of Money
- 3 credit hours of Mathematics Electives*

Business

- ACC 101 Principles of Financial Accounting
- BUS 123 Business Communications
- BUS 142 Professional Selling
- BUS 146 Retail Business Management
- BUS 147 Small Business Management
- BUS 222 Marketing
- BUS 227 Business Law
- BUS 229 Advertising
- BUS 236 Special Topics in Business
- 6 credit hours of Business Electives**

Computer Science

- 3 credit hours of Computer Science (CSC) Electives***

Health/Physical Education

- 2 credit hours of Health/Physical Education (HPE) Electives

General Electives

- 3 credit hours of General Electives

Notes

* MAT 121 Introductory Statistics I recommended

** BUS 120 Introduction to Business OR BUS 124 Organizational Behavior recommended

*** Recommended CSC Elective sequence: CSC 134 Core Word AND CSC 135 Core Excel AND CSC 136 PowerPoint

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ENG 101 Composition I (3)
- MAT 110 Mathematics of Money (3)
- BUS 142 Professional Selling (3)
- BUS 146 Retail Business Management (3)
- PSY 100 Introduction to Psychology (3)
- Health/Physical Education (HPE) Elective (1)

Second Semester (16 Credit Hours)

- ENG 102 Introduction to Reading Literature (3)
- ACC 101 Principles of Financial Accounting (4)
- BUS 147 Small Business Management (3)
- BUS 222 Marketing (3)
- COM 110 Public Speaking (3)

Third Semester (16 Credit Hours)

- BUS 123 Business Communications (3)
- ECO 100 Survey of Economics or higher (3)
- Computer Science (CSC) Elective (3)
- Mathematics Elective (3)
- General Elective (3)
- Health/Physical Education (HPE) Elective (1)

Fourth Semester (15 Credit Hours)

- BUS 227 Business Law (3)
- BUS 229 Advertising (3)
- BUS 236 Special Topics in Business (3)
- Business Elective (3)
- Business Elective (3)

Mechanical Technology

The Degree

Associate in Applied Science (A.A.S.)

The Program

The A.A.S. Mechanical Technology degree program at FLCC will provide you with the knowledge and technical skills to assist engineers in all facets of the industry. Instruction emphasizes developing your technical competence and engineering analysis, while utilizing CAD software. The majority of the core courses needed for this degree are offered at [FLCC's Victor Campus Center](#).

In this program, you'll utilize FLCC's state-of-the-art CAD lab, which offers 24 networked computers with current versions of AutoCAD, Inventor, Solidworks, and Microsoft Office. You'll learn to output your design work through networked output devices, including a 3D printer, color laser printer, and large format color plotter.

Program Learning Outcomes

Upon completion of this degree program, students shall:

- Produce accurate 3D models from sketches or physical models.
- Perform common mechanical engineering calculations.
- Defend material choices based on engineering properties as used in engineering designs.
- Discuss appropriate manufacturing processes that ensure components and assemblies can be fabricated.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). All technology students take a common core of courses during the first semester along with an introductory course in their chosen degree program. After the first semester, it is possible to transfer from one technology degree program to another without loss of credit. For this degree program, you must successfully complete the following:

Program Core

- ESC 105 Engineering Graphics
- MET 101 Material Science
- MET 104 Manufacturing Processes
- MET 106 Engineering Drawing II
- MET 115 Technology Freshman Seminar
- MET 205 Engineering Drawing II

- MET 216 Statics and Strength of Materials
- MET 217 Dynamics and Strength of Materials
- MET 220 Machine Design I
- MET 221 Machine Design II
- MET 255 Mechanical Technology Capstone Project
- TECH 122 Electronic Theory

General Education

- ENG 101 Composition I
- ENG 103 Composition II
- PHY 118 College Physics I and PHY 119 College Physics II OR PHY 151 University Physics I and PHY 152 University Physics II
- SUNY General Education approved course in Basic Communication: Oral
- SUNY General Education approved course in Social Science
- 1 credit Health/Physical Education (HPE) Elective

Choose two (2) courses (based on level of math competency) from the following:

- MAT 145 Survey of Functions I
- MAT 152 Pre-Calculus (Survey of Functions II)
- MAT 271 Calculus I
- MAT 272 Calculus II

Approved Electives

Choose three (3) credits from the following:

- MAT 121 Introductory Statistics I
- MAT 122 Introductory Statistics II
- MAT 200 Statistics
- MAT 271 Calculus I
- MAT 272 Calculus II
- MET 230 Jig & Fixture Design
- MET 232 Optical Mounting Design
- MET 234 Principles of Renewable Energy
- MET 250 Technology Co-op

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- SUNY General Education approved course in Basic Communication: Oral (3)
- ENG 101 Composition I (3)
- ESC 105 Engineering Graphics (3)

- MET 101 Material Science (3)
- MET 115 Technology Freshman Seminar (1)
- Approved Math Elective (3)

Second Semester (16 Credit Hours)

- MET 104 Manufacturing Processes (3)
- MET 106 Engineering Drawing II (3)
- PHY 118 College Physics I or PHY 151 University Physics I (4)
- TECH 122 Electronic Theory (3)
- Approved Math Elective (3)

Third Semester (16 Credit Hours)

- ENG 103 Composition II (3)
- MET 205 Engineering Drawing III (3)
- MET 216 Statics and Strength of Materials (3)
- MET 220 Machine Design I (3)
- PHY 119 College Physics II or PHY 152 University Physics II (4)

Fourth Semester (16 Credit Hours)

- MET 217 Dynamics & Strength of Materials (3)
- MET 221 Machine Design (3)
- MET 255 Mechanical Technology Capstone Project (3)
- SUNY General Education approved course in Social Science (3)
- Approved Mechanical Technology Elective (3)
- Health/Physical Education (HPE) Elective (1)

Natural Resources Conservation

The Degree

Associate in Applied Science (A.A.S.)

The Program

The natural resources conservation program at FLCC integrates diverse field experiences with classroom study. It will offer you a broad awareness of environmental issues and in addition will provide you with an appreciation of our natural world. Courses in field botany, terrestrial and aquatic ecology, soils, waters and forests, fish and wildlife, and environmental science provide theoretical basis for what is learned outside the classroom.

Furthermore, while enrolled in the program, you will have the opportunity to use industry-standard research technology such as electro-fishing equipment, water quality probes, GIS computer software, and wildlife tracking radio-telemetry devices.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Utilize current, relevant, and standardized methods and technology appropriate to various fields.
- Identify flora and fauna in the field based on (suites of) morphological characteristics.
- Collect, analyze and explain data using discipline specific terminology.
- Demonstrate development of essential career skills (e.g. job searching, interviewing, resume writing, technical writing, continual professional improvement).

Curriculum Reuirements

As a student in this program, you are required to complete a minimum of 62 credit hours with a grade point average of no lower than C (2.0). The conservation field camp course (CON 190) is designed to provide one week of intense field experiences in conservation and recreation. The camp is held in May, immediately after the spring semester, and runs for one week. This course is required and should be taken as early as possible. For this degree program, you must successfully complete the following:

Program Core

- AGR 100 Soil Science
- BIO/CON 103 Environmental Science
- BIO 121 General Biology I OR BIO 125 Foundations of Life Science
- BIO 221/CON 202 Principles of Terrestrial and Aquatic Ecology
- BIO/CON 224 Introduction to Dendrology and Field Botany

- CON 100 First Year Experience in Conservation
- CON 102 Introduction to Fish and Wildlife
- CON 122 Introduction to Applied Field Techniques
- CON 190 Conservation Field Camp
- CON 203 Seminar in Environmental Conservation
- CON/GIS 241 Applications of Global Positioning System
- CON 245 Environmental Conservation Capstone
- 3 credit hours of Conservation (CON) Electives
- 6 credit hours of Approved Electives

General Education

- COM SUNY General Education approved course in Basic Communication: Oral
- ENG 101 Composition I
- ENG 103 Composition II
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 3 credit hours of SUNY General Education approved course in Social Sciences
- 3 credit hours of SUNY General Education approved course in Mathematics

Approved Electives

Approved Conservation/Forest Resources/Water Resources Electives:

- BIO/CON 246 Limnology
- CON 215 Unique Ecological Communities
- CON 217 Environmental Planning and Impact Analysis
- CON 229 Stream Ecology and Monitoring
- CON 235 Wetland Science and Practice
- CON 239 Introduction to Ecological Management Practices
- CON/FOR 243 Introduction to Sustainable Forest Management
- CON/FOR 244 Introduction to Forest Measurements
- CON 255/WFS 130 Wildland Fire Suppression
- CON/WFS 256 Fire Ecology
- WFS 212 Wildland Fire Chainsaws

*** Sample Schedule**

* The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- AGR 100 Soil Science (3)
- BIO/CON 103 Environmental Science (4)
- CON 100 First Year Experience in Conservation (3)

- CON 122 Introduction to Applied Field Techniques (3)
- ENG 101 Composition I (3)

Second Semester (16 Credit Hours)

- BIO 121 General Biology I OR BIO 125 Foundation of Life Science (4)
- BIO/CON 224 Introduction to Dendrology and Field Botany (3)
- CON 102 Introduction to Fish and Wildlife (3)
- ENG 103 Composition II (3)
- SUNY General Education approved course in Basic Communication: Oral (3)

Summer Semester (1 Credit Hour)

- CON 190 Conservation Field Camp (1)

Third Semester (15 Credit Hours)

- BIO 221/CON 202 Principles of Terrestrial and Aquatic Ecology (3)
- Conservation (CON) Elective (3)
- Approved Elective (3)
- SUNY General Education approved course in Mathematics (3)
- SUNY General Education approved course in Social Sciences (3)

Fourth Semester (14 Credit Hours)

- CON 203 Seminar in Environmental Conservation (4)
- CON/GIS 241 Introduction to Geographic Information Systems (3)
- CON 245 Environmental Conservation Capstone (1)
- Approved Elective (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)

Networking and Cybersecurity

The Degree

Associate in Applied Science (A.A.S.)

The Program

Finger Lakes Community College's Associate in Applied Science in Networking and Cybersecurity degree prepares you to be a leader in the rapidly evolving cybersecurity landscape. The world is demanding quicker and easier access to online information, and as a result, networks are becoming increasingly vulnerable to attacks.

As these threats increase, so does the demand for cybersecurity professionals trained to prevent and fight against these attacks. FLCC's Networking and Cybersecurity degree equips you with the experience to resolve these real-world problems.

Program Learning Outcomes

Upon completion of the A.A.S in Networking and Cybersecurity program, students will be equipped with the knowledge and skills to be able to:

- Design, configure, maintain, troubleshoot, and secure networks ethically and efficiently, using the latest technologies and protocols
- Express concepts, requirements, and solutions without technical jargon
- Analyze and evaluate current trends in the IT industry and pursue information to stay current in an ever-changing field
- Apply computational concepts and analytical thinking in the development of computer algorithms and solutions

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- CSC 103 Computing Sciences Portal
- CSC 115 CS1: Introduction to Programming and Computational Thinking
- CSC 142 Fundamentals of Information Systems
- CSC 231 Systems Administration
- CSC 248 PowerShell
- CSC 250 Computing Sciences Internship

- CSC 260 Networking Technologies
- CSC 261 Routing and Switching
- CSC 270 Principles of Information Security
- CSC 271 Hardware and Operating Systems
- CSC 272 Linux
- CSC 273 Ethical Hacking
- CSC 274 Digital Forensics
- 2 credit hours of CSC 200 level electives

General Education

- ENG 101 Composition I
- COM 100 Human Communication
- MAT 121 Introductory Statistics I
- MAT 122 Introductory Statistics II
- ENG 113 Technical Ethics
- 3 credit hours of SUNY General Education approved course in Social Science
- 3 credit hours of SUNY General Education approved course in American History, Western Civilization or Other World Civilization
- 2 credit hours of Health/Physical Education Elective

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit Hours)

- CSC 103 Computing Sciences Portal (3)
- CSC 115 CS1: Introduction to Programming and Computational Thinking (3)
- CSC 142 Fundamentals of Information Systems (3)
- CSC 271 Hardware and Operating Systems (3)
- ENG 101 Composition I (3)

Second Semester (17 Credit Hours)

- COM 100 Human Communication (3)
- CSC 260 Networking Technologies (3)
- CSC 270 Principles of Information Security (3)
- ENG 113 Technical Ethics (3)
- SUNY General Education approved course in Social Science (3)
- Health/Physical Education elective (2)

Third Semester (17 Credit Hours)

- CSC 248 PowerShell (3)
- CSC 261 Routing and Switching (3)
- CSC 272 Linux (3)
- 200 level CSC elective (2)
- MAT 121 Introductory Statistics I (3)
- SUNY General Education approved course in American History, Western Civilization or Other World Civilization (3)

Fourth Semester (15 Credit Hours)

- CSC 231 Systems Administration (3)
- CSC 273 Ethical Hacking (3)
- CSC 274 Digital Forensics (3)
- CSC 250 Computing Sciences Internship (3)
- MAT 122 Introductory Statistics II (3)

Nursing

Associate in Applied Science (A.A.S.)

The Program

The A.A.S. nursing degree program offers a registered nurse (R.N.) course of study, utilizing a state-of-the-art nursing lab, audio-visual lab, and computer-assisted instruction.

In addition to developing the skills necessary for nursing practice, you will receive a broad-based liberal arts education while enrolled in the program.

After completing the course of study, you will be qualified to take a national licensing exam necessary for becoming a registered nurse. The overall passing rate for FLCC nursing students is competitive with state and national averages.

Accelerated Option

An Accelerated Option for LPNs is also available. For details, check out the [Accelerated Option for LPNs website](#), or contact the [Nursing Department](#).

End-of-Program Student Learning Outcomes

- Students will provide and advocate for safe patient-centered care using sound nursing judgment to assist individuals, families and communities to achieve optimal adaptation to changing health.
- Students will practice within a professional, legal, and ethical scope.
- Students will function as a member of the interprofessional team through effective communication and mutual respect to achieve quality patient outcomes.
- Students will use evidence based practice standards, a spirit of inquiry, technological and informational literacy to promote safe practice within changing and uncertain environments.

Program Learning Outcomes

- Program Evaluation demonstrates that students have achieved each End-of-Program Student Learning Outcome.
- Annual licensure examination pass rate will be a minimum of 80% for all first-time test-takers during the same 12-month period.
- 65% of the students will graduate from FLCC within 150% of the time frame allotted for the program.
- 90% of graduates seeking employment will be employed in a RN position within one year of graduation.

Curriculum Requirements

Students in the nursing program are required to complete 64 semester hours with a minimum grade point average of C (2.0) or better. A minimum grade of C is required in Human Anatomy and Physiology I and II and Microbiology to continue in the nursing program. All non-nursing courses in the required nursing sequence also require a C (2.0) or better for program completion. All nursing courses with a NUR prefix require a C+ (2.5) or better for satisfactory academic performance in addition to satisfactory clinical performance.

Please note: Unsatisfactory clinical performance in any clinical nursing course will negate the student's academic performance.

For this degree program, students must complete the following:

Program Core

- NUR 100 Fundamentals of Nursing
- NUR 101 Nursing Care of the Adult and Child I
- NUR 202 Nursing Care of the Adult and Child II
- NUR 203 Maternal-Child Health Nursing
- NUR 204 Psychiatric/Mental Health Nursing
- NUR 215 Nursing Seminar
- NUR 260 Clinical Capstone Internship

General Education

- BIO 171 Human Anatomy and Physiology I
- BIO 172 Human Anatomy and Physiology II
- BIO 230 Microbiology
- COM/ENG 125 Healthcare Communication
- ENG 101 Composition I
- MAT 115 Mathematics for Health Care Professionals
- PSY 100 Introduction to Psychology
- PSY 200 Life Span Development
- SUNY General Education approved course in one of the following categories:*

 - American History
 - Western Civilization
 - Other World Civilization
 - World (Foreign) Language
 - The Arts
 - Humanities
 - Mathematics OR
 - SOC 100 Introduction to Sociology

- 1 credit hour HPE Elective

Notes

Any student who successfully completes ENG 103 and a general education COM course may receive credit for ENG 125 upon acceptance to the FLCC Nursing program.

* Suggested courses that can satisfy this requirement include ANT 111 Cultural Anthropology, HIS 265 The Black Death and Beyond: How Disease Has Changed History; ASL 101 American Sign Language I (or higher), FRN 101 French 1 (or higher). The College Catalog includes a list of all the courses satisfying each of these categories. The program would also like students to still have the option to take SOC 100 Introduction to Sociology, despite this resulting in the additional SUNY General Education category not being met.

Requirements for Admittance to RN Licensure Exam

Graduates of this nursing program meet the education requirement for admittance to the RN licensure exam; however, there is a requirement that the applicant be of "good moral character," and a fee must be paid for the test. On the application for the test, the applicant is required to truthfully answer the following questions:

- Have you ever been convicted of a crime (felony or misdemeanor) in any state or country?
- Are charges pending against you for a crime (felony or misdemeanor) in any state or country?
- Have you ever been found guilty of professional misconduct, unprofessional conduct or negligence in any state or country?
- Are charges pending against you for professional misconduct, unprofessional conduct or negligence in any state or country?

If the answer to any of the above questions is yes, the applicant must offer full explanation and establish his/her good moral character with the New York State Education Department.

Candidates who wish to undertake the Excelsior College degree for an Associate in Applied Science in nursing in New York State may enroll at Finger Lakes Community College for required general education courses. Information about this external degree can be obtained by contacting Excelsior College at www.excelsior.edu or by phone at 1(888) 647-2388.

Students wishing to pursue a baccalaureate degree in nursing (B.S.N.) are advised to make this desire known early to help facilitate transfer to any of several upper division nursing programs in the area. Transfer articulation agreements are in place for Nazareth College, State University College at Brockport, St. John Fisher College, The Sage Colleges, LeMoyne College, SUNY IT and SUNY Upstate Medical University. Joint admission agreements are in place with Roberts Wesleyan College, St. John Fisher College, and the University of Rochester.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. Students registering for a January or Summer Nursing Practicum or Summer Nursing Course must do so by established deadlines. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit Hours)

- ENG 101 Composition I (3)
- PSY 100 Introduction to Psychology (3)

- BIO 171 Human Anatomy and Physiology I (4)
- NUR 100 Fundamentals of Nursing (6)
- MAT 115 Mathematics for Health Care Professionals (1)

Second Semester (18 Credit Hours)

- COM/ENG 125 Healthcare Communication (3)
- PSY 200 Life Span Development (3)
- BIO 172 Human Anatomy and Physiology II (4)
- NUR 101 Nursing Care of the Adult and Child I (8)

Third Semester (17 Credit Hours)

- NUR 202 Nursing Care of the Adult and Child II (9)
- BIO 230 Microbiology (4)
- Health/Physical Education (HPE) Elective (1)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilization (3)
 - World (Foreign) Language (3)
 - The Arts (3)
 - Humanities (3)
 - Mathematics (3) OR
 - SOC 100 Introduction to Sociology (3)

Fourth Semester (12 Credit Hours)**

- NUR 203 Maternal-Child Health Nursing (4)
- NUR 204 Psychiatric/Mental Health Nursing (4)
- NUR 215 Nursing Seminar (2)
- NUR 260 Nursing Capstone Internship (2)

Notes

Any student who successfully completes ENG 103 and a general education COM course may receive credit for ENG 125 upon acceptance to the FLCC Nursing program.

* Suggested courses that can satisfy this requirement include ANT 111 Cultural Anthropology, HIS 265 The Black Death and Beyond: How Disease Has Changed History; ASL 101 American Sign Language I (or higher), FRN 101 French 1 (or higher). The College Catalog includes a list of all the courses satisfying each of these categories. The program would also like students to still have the option to take SOC 100 Introduction to Sociology, despite this resulting in the additional SUNY General Education category not being met.

** Qualify to sit for the National Council Licensing Examination for Registered Nursing after completing the course of study.

Accelerated Option for LPNs

A special accelerated option of limited enrollment is offered to qualified licensed practical nurses. The nursing component of this program may be completed in two semesters and one summer session. Advanced placement is granted after knowledge and skills assessment of NUR 100 content. Students must enroll for a minimum of 32 credit hours, 17 of which must be in nursing, to attain an A.A.S. in nursing at Finger Lakes Community College. Interested persons should contact the Nursing Department directly for further information.

Through appropriate testing, LPNs may be granted advanced standing in the Finger Lakes Community College nursing program. This minimizes repetitive coursework for qualified students. Before admission to this sequence, the following prerequisites must be met:

1. Graduated from an accredited high school or equivalency diploma
2. Math Prerequisite - Students may take high school algebra, or college algebra to fulfill the math prerequisite for Nursing.
3. High School Chemistry with lab or college equivalent (CHM 092 at FLCC).
4. General Education (FLCC courses or approved transfer credit)
 - o Human Anatomy & Physiology I (4 cr.)*
 - o Composition I (3 cr.)
 - o Introduction to Psychology (3 cr.)
5. A minimum cumulative GPA of 2.5 is required for entry into the FLCC Accelerated Option for Licensed Practical Nurses. All college coursework will be factored in the GPA calculation. Borderline candidates who have demonstrated recent academic success will be reviewed by the Nursing Admissions Committee.
6. If any courses in the FLCC A.A.S. Nursing sequence have already been completed, a grade of C or better is required in these courses to be eligible for admission into this program option.
7. A prospective student who has two or more unsuccessful attempts in nursing course work as defined by the previous program(s) attended in two different semesters in a nursing program other than FLCC's, will not be eligible for admission to the FLCC nursing program.
8. Any student who has had one attempt in nursing course work in a nursing program other than FLCC, must arrange for the director of that nursing program to submit a letter attesting that she/he left that program in good clinical standing. Any student not in good clinical standing or who does not submit a letter will not be considered for admission to the FLCC nursing program. It is the responsibility of the student requesting admission to follow up on the requested letter.
9. Failure to submit all academic transcripts from each collegiate institute attended will result in dismissal from the program.

Nursing Component

- Current licensure as an LPN (copy of registration must be submitted*)
 - Fundamentals of Nursing (NUR 100) - 6 articulated credits earned by having either:
 - o Graduated within the past two years from an ACEN accredited LPN program with an average of 84, B, or 3.0 or better in nursing courses. If this condition is met, no examination will be required to validate learning equivalent to FLCC Fundamentals of Nursing course (NUR 100).
- OR

- Achieved a grade of C+ on the FLCC Fundamentals of Nursing Challenge Exam.
OR
- Achieved a grade of C or better as determined by Excelsior College on the Excelsior College Fundamentals of Nursing Practice Examination.

- Two letters of professional reference*
- Transcript of LPN program*
- Skill assessment - DSD, Gloving
- Math assessment

*Must be submitted to Nursing Department by October 1st.

To qualify for the A.A.S. degree under the Accelerated Option for LPNs, the nursing student must have enrolled and satisfactorily completed a minimum of 32 credit hours, 17 of which must be in nursing, and have met the minimum one-year residency requirement at Finger Lakes Community College. If all degree requirements are met, students qualify for January or March graduation. All Nursing Department and Admission Office policies apply to this option. Program enrollment is limited.

Recommended Sequence

Winter Session (2 Credit hours)

- NUR 105 Nursing Process (1)
- MAT 115 Mathematics for Health Care Professionals (1)

Spring Semester (18 Credit Hours)

- NUR 101 Nursing Care of the Adult and Child I (8)
- BIO 172 Human Anatomy and Physiology II (4)
- PSY 200 Life Span Development (3)
- COM/ENG 125 Healthcare Communication (3)

Summer Session (8 Credit Hours)

- NUR 204 Psychiatric/Mental Health Nursing (4)
- BIO 230 Microbiology (4)

Fall Semester (15 Credit Hours)

- NUR 202 Nursing Care of the Adult and Child II (9)
- NUR 215 Nursing Seminar (2)
- SUNY General Education approved course in one of the following categories (3)* :
 - American History
 - Western Civilization
 - Other World Civilization
 - World (Foreign) Language

- The Arts
- Humanities
- Mathematics OR
- SOC 100 Introduction to Sociology
- Health/Physical Education (1)

Spring Semester (6 Credit Hours)

- NUR 203 Maternal-Child Health Nursing** (4)
- NUR 260 Nursing Capstone Internship (2)

*NOTE: Suggested courses that can satisfy this requirement include ANT 111 Cultural Anthropology, HIS 265 The Black Death and Beyond: How Disease Has Changed History; ASL 101 American Sign Language I (or higher), FRN 101 French 1 (or higher). The College Catalog includes a list of all the courses satisfying each of these categories. The program would also like students to still have the option to take SOC 100 Introduction to Sociology, despite this resulting in the additional SUNY General Education category not being met.

** This course may be challenged.

For more information, contact the Nursing Department at (585)785-1345.

Nursing courses or exams must be taken within two years of matriculation. [View Additional Accelerated Option for LPN Information and all Required Forms](#)

** All approved nursing challenge exams must be completed by Sept. 1 of the sophomore year in the nursing program; otherwise, courses will have to be taken in the spring semester after successful completion of NUR 202.

Path to Nursing Sequence

This sequence is provided for those students who (1) apply too late in the year for admission to the nursing curriculum, (2) have not met the prerequisites for admission, or (3) prefer to pursue the nursing curriculum on a part-time or reduced course load basis.

If you are interested in pursuing this sequence, you should enroll in Health Care Studies or Liberal Arts and Sciences.

Eventual acceptance in the nursing curriculum is competitive and would be on a space-available basis and conditional upon successful completion of the liberal arts and sciences sequence of courses (minimum C in every course and a minimum overall GPA of 2.5), and written notification to Admissions during December advising them of the desire to be considered in the following fall semester. A two-year, four-semester sequence of professional nursing courses, plus any other requirements in the A.A.S. Nursing degree program that were not taken during the liberal arts and sciences year would follow. If a student has not completed high school chemistry or the equivalent, this requirement must be met successfully prior to enrolling in the nursing program.

Possible Sequence*:

Fall Semester (11-12 Credit Hours)

- ENG 101 Composition I (3)
- PSY 100 Introduction to Psychology (3)
- Biology Elective (BIO 110 Fundamentals of Human Anatomy and Physiology OR BIO 171 Human Anatomy and Physiology I) (3-4)
- General Elective** (1)
- Health/Physical Education activity class (1)

Spring Semester (16 Credit Hours)

- ENG 103 Composition II (3)
- PSY 200 Life Span Development (3)
- SOC 100 Introduction to Sociology (3)
- Chemistry Elective*** (4)
- Humanities Elective (3)

*See program prerequisites or consult a nursing advisor.

**If a student had not completed high school algebra or its equivalent, MAT 095 Fundamental Math and Algebraic Skills must be successfully met prior to enrolling in the nursing program. This requirement is not satisfied for students who have completed a high school equivalency program (GED).

***If a student has not completed high school chemistry or its equivalent, CHM 092 Introduction to Chemistry must be successfully met prior to enrolling in the nursing program.

Paralegal & Legal Studies

The Degree

Associate in Applied Science (A.A.S.)

The Program

Paralegals play an important role in assisting attorneys with conducting legal research, drafting legal documents, and organizing and managing case files.

At FLCC, you'll acquire the knowledge and skills that are required of paralegals in common legal specialty areas such as real property law, family law, litigation, and trust and estate law. You'll engage in assignments and projects that are identical to documents and court filings that are drafted by working paralegals. You may find yourself drawn to the family law class or honing your skills in the legal research and writing course or learning about trial preparation in the courts and litigation course. Whichever aspect of the field interests you most, you'll have the opportunity to explore your options and specialize your educational experience.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Interpret and articulate the legal issue posed by a client's fact scenario, along with the answer to that issue.
- Prioritize, integrate, and analyze information to achieve the best outcome for a client.
- Apply the rules of legal ethics in different scenarios encountered in paralegal practice.
- Create appropriate legal documentation required for various legal tasks.

*** Paralegals may not provide legal services directly to the public, except as permitted by law.**

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63 credit hours with a grade point average of no lower than C (2.0). A.A.S. Paralegal requires 70 percent of legal specialty courses be taken at the College. For this degree program, you must successfully complete the following:

Program Core

- ACC 101 Principles of Financial Accounting
- BUS 123 Business Communication
- PLG 100 Introduction to Legal Practice
- PLG 115 Computers in the Law Office
- PLG 120 Business Structures or PLG 245 Tort Law or PLG 255 Bankruptcy Law

- PLG 125 Legal Research and Writing I
- PLG 210 Real Property
- PLG 225 Legal Research and Writing II
- PLG 230 Family Law
- PLG 235 Administration of Wills, Trusts, and Estates
- PLG 240 Courts and Litigation
- PLG 250 Paralegal Internship or PLG 265 Law Office Practice

General Education

- ENG 101 Composition I
- ENG 103 Composition II
- SUNY General Education approved course in Communication: Oral
- SUNY General Education approved course in Mathematics (except MAT 110, MAT 121 Introductory Statistics I recommended)
- SUNY General Education approved course in Natural Sciences
- SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- SUNY General Education approved course in Social Sciences
- Professional Elective (any course with prefix PLG, BUS or CJC) (BUS 227 Business Law recommended)
- 2 credit hours of Health/Physical Education (HPE) Elective

Transferring Credits to FLCC

The maximum number of credits of legal specialty courses which can be transferred into the A.A.S. Paralegal and Legal Studies program and the Paralegal certificate program is nine (9) due to ABA requirements. A legal specialty course is one that (1) covers substantive law or legal procedures or process, (2) has been developed for paralegals, and (3) emphasizes practical paralegal skills.

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- BUS 123 Business Communication (3)
- ENG 101 Composition I (3)
- PLG 100 Introduction to Paralegal Practice (3)
- PLG 125 Legal Research and Writing I (3)

- SUNY General Education approved course in Mathematics (except MAT 110, MAT 121 Introductory Statistics I recommended) (3)
- Health/Physical Education (HPE) Elective (1)

Second Semester (15-16 Credit Hours)

- ENG 103 Composition II (3)
- PLG 225 Legal Research and Writing I (3)
- PLG 230 Family Law (3)
- SUNY General Education approved course in Natural Sciences (3-4)
- SUNY General Education approved course in Basic Communication: Oral (3)

Third Semester (16 Credit Hours)

- ACC 101 Principles of Financial Accounting (4)
- PLG 115 Computers in the Law Office (3)
- PLG 210 Real Property Law and Practice (3)
- PLG 235 Administration of Wills, Trusts, and Estates (3)
- Professional Elective (any course with prefix PLG, BUS or CJC) (BUS 227 Business Law recommended) (3)

Fourth Semester (16 Credit Hours)

- PLG 120 Business Structures or PLG 245 Tort Law or PLG 255 Bankruptcy Law (3)
- PLG 240 Courts and Litigation (3)
- PLG 250 Paralegal Internship (3)
- SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- SUNY General Education approved course in Social Sciences (3)
- Health/Physical Education (HPE) Elective (1)

Smart Systems Technologies

The Degree

Associate in Applied Science (A.A.S.)

The Program

FLCC's A.A.S. Smart Systems Technologies degree program prepares students for successful careers with current and emerging technology-based businesses. Smart technology powers advancements in many fields, including smart manufacturing, collaborative robots, prosthetics, automated transport, and more.

In this program, you'll develop proficiencies in industrial "IoT" (internet of things), data acquisition, automation, mechatronics, and control systems.

Math and physics courses are integrated into your class schedule alongside courses in electronics, design, process improvement, and automation technologies to provide a well-rounded high-tech education.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Create quantitative models of systems based on fundamentals of integrated physics, mathematics, and computational skills.
- Communicate economic relevance of solving technical problems, individually and through teamwork.
- Assess business cases for automation systems including either parts or all of programmable logic, automation control, mechatronics, and/or machine vision.
- Apply industry-standard methodologies such as Lean Six Sigma for process and project planning and management.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- ESC 105 Engineering Graphics
- SST 116 Introduction to Careers in High-tech Ecosystems
- SST 174 Computing with LabVIEW
- SST 231 Smart Systems Technologies
- SST 232 Cyberphysical Automation Control I
- SST 233 Introduction to Process Improvement

- SST 234 Cyberphysical Automation Control II
- SST 250 Cyberphysical Technology Co-op or TECH 259 Cyberphysical Technology Special Projects
- TECH 122 Electronic Theory
- TECH 123 Digital Electronics

General Education

- ENG 101 Composition I
- ENG 113 Technical Ethics
- CSC 139 MS Access
- MAT 145 Survey of Functions I
- MAT 152 Pre-Calculus (Survey of Functions II)
- PHY 118 College Physics I
- PHY 119 College Physics II
- SUNY General Education approved course in Basic Communication: Oral
- SUNY General Education approved course in Social Sciences
- 2 credit hours of Health/Physical Education (HPE) Electives

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit Hours)

- MAT 145 Survey of Functions I (3)
- PHY 118 College Physics I (4)
- SST 116 Introduction to Careers in High-tech Ecosystems (3)
- SST 174 Computing with LabVIEW (2)
- SUNY General Education approved course in Social Science (3)

Second (16 Credit Hours)

- ESC 105 Engineering Graphics (3)
- MAT 152 Pre-Calculus (Survey of Functions II) (3)
- PHY 119 College Physics II (4)
- TECH 122 Electronic Theory (3)
- TECH 123 Digital Electronics (3)

Third Semester (16 Credit Hours)

- CSC 139 MS Access (1)
- ENG 101 Composition I (3)
- SST 231 Smart Systems Technologies (3)

- SST 232 Cyberphysical Automation Control I (4)
- SUNY General Education approved course in Basic Communication: Oral (3)
- HPE Physical Education Elective (2)

Fourth Semester (16 Credit Hours)

- ENG 113 Technical Ethics (3)
- SST 233 Introduction to Process Improvement (3)
- SST 234 Cyberphysical Automation Control II (4)
- TECH 250 Cyberphysical Technology Co-op (6) or TECH 259 Cyberphysical Technology Special Projects (6)

Smart Systems Technologies: Advanced Manufacturing Track

The Degree

Associate in Applied Science (A.A.S.)

The Program

A resume with an A.A.S. Smart Systems Technologies: Advanced Manufacturing degree from FLCC shows employers that you have the technical and hands-on experience needed to excel in a variety of manufacturing environments. From workplace safety to effective machine control principles, you will learn how to serve the advanced manufacturing industry in multiple capacities.

Advanced Manufacturing track students take four ADM courses. Completing these courses will allow you to earn certifications that will strengthen your resume even more:

- Successful completion of the Introduction to Safety and Careers in Advanced Manufacturing course earns you an OSHA - 10 Safety Certification.
- Completing all four ADM courses will grant you a "Certified Production Technician" credential, accredited by the Manufacturing Skill Standards Council (MSSC).

Students who complete at least the first two ADM courses will have the option to join the Smart Systems Technologies degree program. Through your remaining Smart Systems Technologies courses, you'll expose yourself to new and emerging technologies, from robotics to automation control. Build a path for success at FLCC!

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Create quantitative models of systems based on fundamentals of integrated physics, mathematics, and computational skills.
- Communicate economic relevance of solving technical problems, individually and through teamwork.
- Assess business cases for automation systems including either parts or all of programmable logic, automation control, mechatronics, and/or machine vision.
- Apply industry-standard methodologies such as Lean Six Sigma for process and project planning and management.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- ADM 100 Introduction to Safety and Careers in Advanced Manufacturing
- ADM 200 Foundations in Advanced Manufacturing - Quality
- ADM 205 Foundations in Advanced Manufacturing - Production
- ADM 210 Foundations in Advanced Manufacturing - Maintenance
- ESC 105 Engineering Graphics
- SST 174 Computing with LabVIEW
- SST 231 Smart Systems Technologies
- SST 232 Cyberphysical Automation Control I
- SST 234 Cyberphysical Automation Control II
- TECH 122 Electronic Theory
- TECH 123 Digital Electronics

General Education

- ENG 101 Composition I
- ENG 113 Technical Ethics
- CSC 139 MS Access
- MAT 145 Survey of Functions I
- MAT 152 Pre-Calculus (Survey of Functions II)
- PHY 118 College Physics I
- PHY 119 College Physics II
- SUNY General Education approved course in Basic Communication: Oral
- SUNY General Education approved course in Social Sciences
- 2 credit hours of Health/Physical Education (HPE) Electives

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit Hours)

- ADM 100 Introduction to Safety and Careers in Advanced Manufacturing (3)
- MAT 145 Survey of Functions I (3)
- PHY 118 College Physics I (4)
- SST 174 Computing with LabVIEW (2)
- SUNY General Education approved course in Social Science (3)

Second Semester (16 Credit Hours)

- ADM 200 Foundations in Advanced Manufacturing – Quality (3)
- MAT 152 Pre-Calculus (Survey of Functions II) (3)
- PHY 119 College Physics II (4)
- TECH 122 Electronic Theory (3)
- TECH 123 Digital Electronics (3)

Third Semester (16 Credit Hours)

- ADM 205 Foundations in Advanced Manufacturing – Production (3)
- CSC 139 MS Access (1)
- ENG 101 Composition I (3)
- SST 231 Smart Systems Technologies (3)
- SST 232 Cyberphysical Automation Control I (4)
- HPE Physical Education Elective (2)

Fourth Semester (16 Credit Hours)

- ADM 210 Foundations in Advanced Manufacturing – Maintenance (3)
- ENG 113 Technical Ethics (3)
- ESC 105 Engineering Graphics (3)
- SST 234 Cyberphysical Automation Control II (4)
- SUNY General Education approved course in Basic Communication: Oral (3)

Viticulture and Wine Technology

The Degree

Associate in Applied Science (A.A.S.)

The Program

FLCC's A.A.S. Viticulture and Wine Technology degree program requires you to demonstrate scientific and vocational knowledge, including occupational Spanish, tractor driving and pesticide application. This degree is designed to allow you to further your education so that you can apply to four-year programs.

Building on FLCC's well-known and established Environmental Conservation and Horticulture programs, this degree also includes an emphasis on sustainability, ensuring that the important environmental issues in the region will be addressed.

Program Learning Outcomes

Upon completion of this degree program, students will be able to:

- Demonstrate the ability to read, write, and integrate and analyze information from multiple resources and present the information using select computer programs commonly available.
- Demonstrate professional competency in viticulture and wine technology using industry level skills and knowledge.
- Explain interdependence of viticulture and winemaking with rural communities, economic activities, human and natural resources.
- Speak and present before a group on viticulture and wine technology topics including: wine microbiology, modern winemaking technologies, grapevine physiology, vineyard environmental factors and interactions, and sustainable practices in the vineyard and winery.
- Apply academic and professional ethics and values while critically evaluating modern viticulture and winemaking practices.
- Apply mathematics skills while understanding the impact of winemaking and/or viticulture decisions on wine and/or grape chemistry characteristics.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Core Courses

- AGR 100 Soil Science
- BIO 121 General Biology I

- BIO 251 Plant Structure and Function
- CHM 121 General Chemistry I
- ENG 101 Composition I
- ENG 103 Composition II
- HPE 111 First Aid and Basic Life Support
- VIT 100 Introduction to Wines and Vines
- VIT 105 Basic Viticulture Techniques
- VIT 115 Introduction to Enology Lab Techniques
- VIT 210 Enology I
- SUNY General Education approved course from one of the following categories:
 - Social Science
 - American History
 - Western Civilization
 - Other World Civilizations

Main Track

- SUNY General Education approved course in Basic Communication: Oral
- HRT 110 Introduction to Horticulture
- MAT 145 Survey of Functions I*
- 3 credits Spanish Elective
- VIT 110 Summer Vineyard Technology Practicum
- VIT 200 Vineyard Management
- VIT 205 Fall Wine Technology Practicum
- VIT 215 Enology II

*Or another Mathematics/Business course upon approval of Viticulture Advisor.

Sample Schedule: Main Track

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- BIO 121 General Biology I (4)
- ENG 101 Composition I (3)
- MAT 145 Survey of Functions I (3)
- HRT 110 Introduction to Horticulture (3)
- VIT 100 Introduction to Wines and Vines (3)

Second Semester (16 Credit Hours)

- AGR 100 Soil Science (3)
- CHM 121 General Chemistry I (4)
- ENG 103 Composition II (3)
- HPE 111 First Aid and Basic Life Support (1)
- VIT 105 Basic Viticulture Techniques (3)
- VIT 115 Introduction to Enology Lab Techniques (2)

Third Semester (16 Credit Hours)

Summer Session

- Spanish Elective (3)
- VIT 110 Summer Vineyard Technology Practicum (5)

Fall Semester

- VIT 205 Fall Wine Technology Practicum (4)
- VIT 210 Enology I (4)

Fourth Semester (16 Credit Hours)

- BIO 251 Plant Structure and Function (4)
- SUNY General Education approved course in Basic Communication: Oral (3)
- VIT 200 Vineyard Management (3)
- VIT 215 Enology II (3)
- SUNY General Education approved course from one of the following categories:
 - Social Science (3)
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)

Viticulture and Wine Technology: Enology Track

The Degree

Associate in Applied Science (A.A.S.)

The Program

The wine industry is in high demand and has a growing need for professionals who specialize in winemaking. If your career goal is to land a position in winemaking, pursuing an education in enology will equip you with the background you need to become successful in this exciting field.

At FLCC, we offer an Enology track program that will put you on a path to a successful future in winemaking. This program is designed for hardworking and driven students who intend to transfer into a four-year degree program in enology after FLCC. With your education, you'll be prepared to transfer to Cornell University to further your studies in this field, or you can also explore advanced degree opportunities in enology at other four-year institutions.

Program Learning Outcomes

Upon completion of the Enology track program, students will be able to:

- Practice fermentation management.
- Appraise and critique sustainable techniques in vineyard management.
- Evaluate scenarios to prevent common viticulture and wine making problems.
- Compare and appraise the technologies used in wine making.
- Develop practical skills used in wine making.
- Discuss the ecology of yeast and bacteria as they exist in juice and wine media.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 semester hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Core Courses

- AGR 100 Soil Science
- BIO 121 General Biology I
- BIO 251 Plant Structure and Function
- CHM 121 General Chemistry I
- ENG 101 Composition I
- ENG 103 Composition II
- HPE 111 First Aid and Basic Life Support

- VIT 100 Introduction to Wines and Vines
- VIT 105 Basic Viticulture Techniques
- VIT 115 Introduction to Enology Lab Techniques
- VIT 210 Enology I
- 3 credits of SUNY General Education approved course in Social Science

Enology Track

- BIO 122 General Biology II
- BIO 230 Microbiology
- CHM 122 General Chemistry II
- CHM 205 Organic Chemistry Lecture
- COM 110 Public Speaking
- MAT 121 Statistics I OR MAT 200 Intermediate Statistics
- VIT 205 Fall Wine Technology Practicum
- VIT 216 Abridged Enology II

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit Hours)

- AGR 100 Soil Science (3)
- BIO 121 General Biology I (4)
- CHM 121 General Chemistry I (4)
- ENG 101 Composition I (3)
- VIT 100 Introduction to Wines and Vines (3)

Second Semester (16 Credit Hours)

- BIO 122 General Biology II (4)
- CHM 122 General Chemistry II (4)
- ENG 103 Composition II (3)
- VIT 105 Basic Viticulture Techniques (3)
- VIT 115 Introduction to Enology Techniques (2)

Third Semester (15 Credit Hours)

- CHM 205 Organic Chemistry I Lecture (4)
- MAT 121 Statistics I OR MAT 200 Intermediate Statistics (3)
- VIT 205 Fall Winery Technology Practicum (4)
- VIT 210 Enology I (4)

Fourth Semester (16 Credit Hours)

- BIO 230 Microbiology (4)
- BIO 251 Plant Structure and Function (4)
- COM 110 Public Speaking (3)
- HPE 111 First Aid and Basic Life Support (1)
- VIT 216 Abridged Enology II (1)
- SUNY General Education approved course in Social Science OR American History OR Western Civilization OR Other World Civilization (3)

Viticulture and Wine Technology: Viticulture Track

The Degree

Associate in Applied Science (A.A.S.)

The Program

Whether you are interested in learning about grape growing or it is your goal to pursue a four-year degree or career in the thriving viticulture field, our Viticulture track program will prepare you to reach your goals. Our program, which is designed for high-achieving students, will equip you with a background of knowledge in grape growing, vineyard management, and winery operations. With your education, you'll be prepared to transfer to Cornell University to further your studies in this field, or you can also explore advanced degree opportunities in viticulture at other four-year institutions.

Program Learning Outcomes

Upon completion of the Viticulture track program, students will be able to:

- Practice fermentation management.
- Appraise and critique sustainable techniques in vineyard management.
- Evaluate scenarios to prevent common viticulture and winemaking problems.
- Compare and appraise the technologies used in vineyard management.
- Develop practical skills used in vineyard management.
- Interpret processes of pest control throughout grape vine phenological cycles.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 64 semester hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Core Courses

- AGR 100 Soil Science
- BIO 121 General Biology I
- BIO 251 Plant Structure and Function
- CHM 121 General Chemistry I
- ENG 101 Composition I
- ENG 103 Composition II
- HPE 111 First Aid and Basic Life Support
- VIT 100 Introduction to Wines and Vines
- VIT 105 Basic Viticulture Techniques
- VIT 115 Introduction to Enology Lab Techniques

- VIT 210 Enology I
- 3 credits of SUNY General Education approved course in Social Science

Viticulture Track

- BIO 122 General Biology II
- CHM 122 General Chemistry II
- CHM 205 Organic Chemistry I Lecture
- COM 110 Public Speaking
- HRT 110 Introduction to Horticulture
- MAT 121 Statistics I or MAT 200 Intermediate Statistics
- VIT 110 Summer Vineyard Technology Practicum
- VIT 201 Abridged Vineyard Management

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit Hours)

- BIO 121 General Biology I (4)
- CHM 121 General Chemistry I (4)
- ENG 101 Composition I (3)
- HRT 110 Introduction to Horticulture (3)
- VIT 100 Introduction to Wines and Vines (3)

Second Semester (16 Credit Hours)

- BIO 122 General Biology II (4)
- CHM 122 General Chemistry II (4)
- ENG 103 Composition II (3)
- VIT 105 Basic Viticulture Techniques (3)
- VIT 115 Introduction to Enology Lab Techniques (2)

Third Semester (14 Credit Hours)

- CHM 205 Organic Chemistry I Lecture (4)
- HPE 111 First Aid and Basic Life Support (1)
- VIT 110 Summer Vineyard Technology Practicum (5)
- VIT 210 Enology I (4)

Fourth Semester (17 Credit Hours)

- AGR 100 Soil Science (3)
- BIO 251 Plant Structure and Function (4)
- COM 110 Public Speaking (3)
- MAT 121 Statistics I OR MAT 200 Intermediate Statistics (3)
- VIT 201 Abridged Vineyard Management (1)
- SUNY General Education approved course in Social Science OR American History OR Western Civilization OR Other World Civilization (3)

Web and Mobile Development

The Degree

Associate in Applied Science (A.A.S.)

The Program

It's estimated that the mobile app market will be worth approximately \$366 billion by 2027. At FLCC, you'll get a jump start on an industry that shows no sign of slowing down.

FLCC's Web and Mobile Development program prepares future developers like you to enter the workforce equipped with technical problem-solving skills and capabilities in virtual reality, business analytics, and information technology.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 63 credit hours with a grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following:

Program Core

- CSC 103 Computing Sciences Portal
- CSC 115 CS1: Introduction to Programming and Computational Thinking
- CSC 142 Fundamentals of Information Systems
- CSC 162 Website Development for New Media
- CSC 164 Introduction to Scripting for New Media
- CSC 190 CS2: Object-Oriented Software Development
- CSC 250 Computing Sciences Internship
- CSC 251 Applied Database Concepts
- CSC 260 Networking Technologies
- CSC 271 Hardware and Operating Systems
- DIG 100 Introduction to Digital Media
- DIG 120 Digital Media Design
- DIG 210 Introduction to Game and Mobile Application Development

General Education

- ENG 101 Composition I
- ENG 113 Technical Ethics
- COM 100 Human Communication
- MAT 121 Introductory Statistics I
- MAT 122 Introductory Statistics II

- 3 credit hours of SUNY General Education approved course in Social Sciences
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History
 - Western Civilization
 - Other World Civilizations
- 2 credit hours of Health/Physical Education Elective

Sample Schedule

The schedule below shows how the requirements for this degree may be met in four semesters. For some students, fulfilling degree requirements may take more than four semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (15 Credit Hours)

- CSC 103 Computing Sciences Portal (3)
- CSC 115 CS1: Introduction to Programming and Computational Thinking (3)
- CSC 162 Website Development for New Media (3)
- DIG 100 Introduction to Digital Media (3)
- ENG 101 Composition I (3)

Second Semester (16 Credit Hours)

- COM 100 Human Communications (3)
- CSC 164 Introduction to Scripting for New Media (3)
- CSC 190 CS2: Object-Oriented Software Development (4)
- DIG 120 Digital Media Design (3)
- ENG 113 Technical Ethics (3)

Third Semester (17 Credit Hours)

- CSC 142 Fundamentals of Information Systems (3)
- CSC 251 Applied Database Concepts (3)
- CSC 271 Hardware and Operating Systems Technologies (3)
- DIG 210 Introduction to Game and Mobile Application Development (3)
- MAT 121 Introductory Statistics I (3)
- Health/Physical Education Electives (2)

Fourth Semester (15 Credit Hours)

- CSC 250 Computing Sciences Internship (3)
- CSC 260 Networking Technologies (3)
- MAT 122 Introductory Statistics II (3)
- 3 credit hours of SUNY General Education approved course from one of the following categories:
 - American History (3)
 - Western Civilization (3)
 - Other World Civilizations (3)
- SUNY General Education approved course in Social Sciences (3)

Corrections Officer Certificate

The Program

Through the Corrections Officer certificate program, you'll gain the academic knowledge and skills necessary for preparing you to enter a career path as a correctional officer.

This program will educate you on the components of the criminal justice system. You'll learn about safeguards in the adjudication of a criminal matter. Plus, current procedures and practices in corrections will be explored in your studies.

This certificate meets the demands of local corrections facilities, and it is designed to enable jail staff the ability to be more efficient and effective in their positions.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 24 credit hours with a grade point average of no lower than C (2.0). For this certificate you must successfully complete:

Humanities

- ENG 101 Composition I
- COM 100 Human Communication OR COM 110 Public Speaking OR COM 115 Interpersonal Communication

Social Science

- PSY 100 Introduction to Psychology
- SOC 115 Crisis Intervention and Prevention

Criminal Justice

- CJC 100 Introduction to Criminal Justice
- CJC 117 Issues in Constitutional Law
- CJC 120 Introduction to Corrections
- CSC 215 Current Practices in Corrections

Sample Schedule

First Semester (12 Credit Hours)

- ENG 101 Composition I (3)
- SOC 115 Crisis Intervention and Prevention (3)

- CJC 100 Introduction to Criminal Justice (3)
- CJC 120 Introduction to Corrections (3)

Second Semester (12 Credit Hours)

- COM 100 Human Communication OR COM 110 Public Speaking OR COM 115 Interpersonal Communication (3)
- PSY 100 Introduction to Psychology (3)
- CJC 117 Issues in Constitutional Law (3)
- CJC 215 Current Practices in Corrections (3)

Criminal Justice Certificate

The Program

Whether it is your goal to land a career in criminal justice or law enforcement, earning your certificate in Criminal Justice will put you one step closer to reaching your goal.

In our certificate program, you'll experience a foundation of courses in criminal justice that will provide you a background of knowledge in statutory, procedural, and constitutional law.

With your FLCC education, you'll be prepared to transfer into our degree program or seek an entry-level position in criminal justice, law enforcement, or private security.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 24 credit hours with a grade point average of no lower than C (2.0). For this certificate you must successfully complete:

Humanities

- ENG 101 Composition I

Social Science

- PSY 100 Introduction to Psychology
- SOC 100 Introduction to Sociology

Criminal Justice

- CJC 100 Introduction to Criminal Justice
- CJC 105 Criminal Law
- CJC 110 Criminal Procedure Law
- CJC 117 Issues in Constitutional Law
- 3 credit hours Criminal Justice Electives

Sample Schedule

The schedule below shows how the requirements for this certificate may be met in two semesters. For some students, fulfilling certificate requirements may take more than two semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (12 Credit Hours)

- ENG 101 Composition I (3)
- PSY 100 Introduction to Psychology (3)
- CJC 100 Introduction to Criminal Law (3)
- CJC 105 Criminal Law (3)

Second Semester (12 Credit Hours)

- SOC 100 Introduction to Sociology (3)
- CJC 110 Criminal Procedure Law (3)
- CJC 117 Issues in Constitutional Law (3)
- Criminal Justice Elective (3)

Culinary Arts Certificate

The Program

In our Culinary Arts certificate program, you'll experience a core of classes in culinary arts, and you'll gain a strong foundation of knowledge in this growing field. If you share an interest in culinary arts, and it is your goal to change careers or seek employment in the food service industry, this program is designed for you.

Classes are typically offered two days each week, which provides you flexibility with your schedule and gives you the opportunity to work part or full-time as you pursue your education.

Graduates have gone on to apply their education to positions as chefs, cooks, and menu planners.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 32 credit hours with a grade point average of no lower than C (2.0). For this certificate, you must successfully complete the following:

- CUL 100 Culinary Fundamentals
- CUL 105 Culinary Fundamentals Lab
- CUL 110 Intermediate Culinary Applications
- CUL 115 Intermediate Culinary Applications Lab
- CUL 120 Foodservice Sanitation
- CUL 140 Beverage Fundamentals
- CUL 190 Food and Beverage Cost Controls
- CUL 200 Garde Manger and International Cuisine
- CUL 205 Garde Manger Lab
- CUL 255 Culinary Restaurant Practicum
- CUL 270 Hospitality Management Seminar
- NS 115 Introduction to Nutrition
- 2 credits Approved Electives
- Non-credit Program Requirement: 300 hours of Work Experience*

* Students are also required to complete 300 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or 585-785-1792.

Sample Schedule

The schedule below shows how the requirements for this certificate may be met in four semesters. When planning your schedule, you should consult with your advisor.

First Semester (8 Credit Hours)

- CUL 100 Culinary Fundamentals (3)
- CUL 105 Culinary Fundamentals Lab (1)
- CUL 120 Foodservice Sanitation (1)
- CUL 140 Beverage Fundamentals (3)
- Professional Work Experience*

Second Semester (7 Credit Hours)

- CUL 110 Intermediate Culinary Applications (3)
- CUL 115 Intermediate Culinary Applications Lab (1)
- CUL 190 Food and Beverage Cost Controls (3)
- Professional Work Experience*

Third Semester (11 Credit Hours)

- CUL 200 Garde Manger and International Cuisine (3)
- CUL 205 Garde Manger Lab (1)
- CUL 255 Culinary Restaurant Practicum (5)
- Approved Electives (2)
- Professional Work Experience*

Fourth Semester (6 Credit Hours)

- CUL 270 Hospitality Management Seminar (3)
- NS 115 Introduction to Nutrition (3)
- Professional Work Experience*

* Students are also required to complete 300 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or 585-785-1792.

Emergency Medical Technician-Paramedic Certificate

The Program

Designed to prepare students to serve as pre-hospital emergency medical care professionals, FLCC's 16-month emergency medical technician-paramedic certificate program delivers instruction through lecture, lab experiences, clinical lessons and field training. The curriculum also prepares students to take the New York State Paramedic Certification exams and the National Registry of EMT-Paramedic exam, and to obtain American Heart Association certification in basic cardiac life support, advanced cardiac life support and pediatric advanced life support.

FLCC's intensive program gives students an opportunity to learn in the classroom and in the field. Students are required to complete 350 hours of in-hospital clinical field experience in emergency departments, operating rooms, intensive care units, psychiatric treatment units, labor/delivery rooms and other specialized care units. They are also required to complete a 100 to 200 hour field internship with area advanced life support ambulance services.

The curriculum and objectives of each course follow the National Emergency Medical Services Educational Standards for Paramedics.

Curriculum Requirements

You must complete a minimum of 32 credit hours with a grade point average of no lower than C (2.0). For this certificate, you must successfully complete the following:

- EMCR 195 Paramedic I
- EMCR 196 Paramedic II

Apply for Admissions

Admission to the College is a prerequisite to enrolling in the EMT-paramedic certificate program. For more information about applying, visit www.flcc.edu/admissions/ or contact the Admissions Office at (585)785-1000.

Event and Tourism Management Certificate

The Program

Travel and tourism remains a thriving industry that supports millions of jobs in the United States. In the Finger Lakes region, wineries, restaurants, hotels, and events employ a large number of skilled professionals. Related industries, such as hospitality services and transportation services, are also supported by the tourism industry.

Gain industry knowledge and develop the specific management skills that will prepare you to expand or launch a career in tourism by completing FLCC's Event and Tourism Management certificate program.

Designed for working or aspiring tourism professionals, this certificate program features a solid core of classes in hospitality and business, equipping you with specific expertise that will be utilized throughout your career—including coursework in event management, tourism planning, and destination marketing.

You'll explore the business side of travel and tourism, focusing on the key role that management, marketing, and sales play in the travel and tourism industry. Upon completion of this certificate program, you may find yourself working as an event planner, travel or tour guide, concierge, or tourism manager.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 31 credit hours with a grade point average of no lower than C (2.0). For this certificate, you must successfully complete:

- ACC 101 Principles of Financial Accounting
- BUS 224 Human Resource Management
- HOS 100 Introduction to Tourism
- HOS 105 Orientation to Hospitality
- HOS 160 Bar and Beverage Management
- HOS 215 Sustainable Tourism Planning
- HOS 220 Hospitality Marketing and Sales
- HOS 227 Destination Marketing
- HOS 232 Event Management
- HOS 260 Tourism Seminar
- HPE 214 Advanced First Aid, CPR and AED
- Non-credit Program Requirement: 300 hours of Work Experience*

* Students are also required to complete 300 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or (585)785-1792.

Sample Schedule

The schedule below shows how the requirements for this certificate may be met in two semesters. For some students, fulfilling certificate requirements may take more than two semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- HOS 100 Introduction to Tourism (3)
- HOS 105 Orientation to Hospitality (1)
- HOS 215 Sustainable Tourism Planning (3)
- HOS 220 Hospitality Marketing and Sales (3)
- HOS 232 Event Management (3)
- HPE 214 Advanced First Aid, CPR and AED (3)
- Non-credit Program Requirement: 300 hours of Work Experience*

Second Semester (15 Credit Hours)

- ACC 101 Principles of Financial Accounting (4)
- BUS 224 Human Resource Management (3)
- HOS 160 Bar and Beverage Management (2)
- HOS 227 Destination Marketing (3)
- HOS 260 Tourism Seminar (3)
- Non-credit Program Requirement: 300 hours of Work Experience*

* Students are also required to complete 300 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or (585)785-1792.

Food and Beverage Management Certificate

The Program

Restaurants, catering companies, bars, and hotels are among the most in-demand service areas, and the foodservice industry accounts for a large percentage of the U.S. workforce. Qualified employees are in demand as food and beverage sales increase throughout the nation, which makes this field a popular option for many career-seeking professionals.

From food preparation and food service sanitation to bar management and beverage operations, this certificate program will introduce you to the many facets of food and beverage management. Throughout your education, you'll attain industry knowledge, build skills in hospitality management, and acquire the continuous education that will get you ready to expand or launch a career in the food and beverage or hospitality industries.

Your core classes will focus on the key aspects of food and beverage management, preparing you to become a successful professional in restaurant or foodservice operations. After completing your studies, you'll be ready to pursue a wide range of occupations, such as restaurant or bar manager, catering supervisor, or foodservice manager, among others.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 32 credit hours with a grade point average of no lower than C (2.0). For this certificate, you must successfully complete:

- ACC 101 Principles of Financial Accounting
- BUS 224 Human Resource Management
- CUL 100 Culinary Fundamentals
- CUL 105 Culinary Fundamentals Lab
- CUL 120 Foodservice Sanitation
- CUL 140 Beverage Fundamentals
- CUL 190 Food and Beverage Cost Controls
- HOS 100 Introduction to Tourism
- HOS 105 Orientation to Hospitality
- HOS 160 Bar and Beverage Management
- HOS 220 Hospitality Marketing and Sales
- HPE 111 First Aid and Basic Life Support
- 4 credits Approved Elective*
- Non-credit Program Requirement: 300 hours of Work Experience**

*Approved electives are any course with the prefix BUS, CUL, and HOS.

** Students are also required to complete 300 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to

complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or (585)785-1792.

Sample Schedule

The schedule below shows how the requirements for this certificate may be met in two semesters. For some students, fulfilling certificate requirements may take more than two semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- ACC 101 Principles of Financial Accounting (4)
- CUL 140 Beverage Fundamentals (3)
- HOS 100 Introduction to Tourism (3)
- HOS 105 Orientation to Hospitality (1)
- HOS 220 Hospitality Marketing and Sales (3)
- HPE 111 First Aid and Basic Life Support (1)
- Approved elective (1)*
- Non-credit Program Requirement: 300 hours of Work Experience**

Second Semester (16 Credit Hours)

- BUS 224 Human Resource Management (3)
- CUL 100 Culinary Fundamentals (3)
- CUL 105 Culinary Fundamentals Lab (1)
- CUL 120 Food Service Sanitation (1)
- CUL 190 Food and Beverage Cost Controls (3)
- HOS 160 Bar and Beverage Management (2)
- Approved elective (3)*
- Non-credit Program Requirement: 300 hours of Work Experience**

*Approved electives are any course with the prefix BUS, CUL, and HOS.

** Students are also required to complete 300 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or (585)785-1792.

Horticulture Certificate

The Program

Whether you have a general interest in plants and flowers or plan to manage your own landscape, the courses you'll take in our Horticulture certificate program are ideal for giving you the opportunity to explore your career interests in the horticulture field.

If you're currently employed in a position in this field, pursuing your Horticulture certificate at FLCC will equip you with practical skills and knowledge that can be applied toward your position. As you pursue your studies, you'll have the opportunity to specialize in plant protection, general horticulture, or landscaping.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 32 credit hours with a grade point average of no lower than C (2.0). For this certificate, you must successfully complete:

- AGR 100 Soil Science
- BIO/CON 103 Environmental Science OR HRT 280 Field Entomology with Integrated Pest Management
- BIO 121 General Biology I OR BIO 125 Foundations of Life Science
- BIO 251 Plant Structure and Function
- HRT 110 Introduction to Horticulture
- HRT 150 Herbaceous Plant Materials
- HRT 151 Woody Plant Materials
- HRT 220 Field Experiences in Horticulture
- 6 credit hours of approved Horticulture Electives*

Based on the sequence of courses listed, the individual may specialize in (1) plant protection, (2) general horticulture, or (3) landscaping. Students should contact their faculty advisor for courses required in each specialization.

Notes

*Approved Horticulture Electives

- CON 235 Wetland Science and Practice
- GIS 130 Introduction to Geographic Information Systems
- GIS 227 Applications of Global Positioning Systems
- HRT 111 Tree Culture & Maintenance
- HRT 130 Introduction to Floriculture
- HRT 131 Floral Design
- HRT 135 Regulations of Cannabis Cultivation
- HRT 160 Unique Horticulture Facilities

- HRT 201 Landscape Design I
- HRT 202 Landscape Construction and Maintenance
- HRT 203 Turf Management
- HRT 204 Plant Propagation and Nursery Management
- HRT 210 Landscape Design II
- HRT 221 Horticulture Topics I
- HRT 222 Horticulture Topics II
- HRT 223 Horticulture Topics III
- HRT 230 Certified Applicator Training
- HRT 235 Cannabis: Biology to Industrial Application
- HRT 236 Cannabis Cultivation
- VIT 100 Introduction to Wines and Vines
- VIT 105 Basic Viticulture Techniques

Sample Schedule

The schedule below shows how the requirements for this certificate may be met in two semesters. For some students, fulfilling certificate requirements may take more than two semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (16 Credit Hours)

- AGR 100 Soil Science (3)
- BIO 121 General Biology I (4) OR BIO 125 Foundations of Life Science (4)
- HRT 150 Herbaceous Plant Materials (3)
- HRT 110 Introduction to Horticulture (3)
- Approved Horticulture Elective (3)

Second Semester (16 Credit Hours)

- BIO/CON 103 Environmental Science (4) OR HRT 280 Field Entomology with Integrated Pest Management (4)
- BIO 251 Plant Structure and Functions (4)
- HRT 151 Woody Plant Materials (3)
- HRT 220 Field Experiences in Horticulture (2)
- Approved Horticulture Elective (3)

Hotel and Resort Management Certificate

The Program

Hotel and resort management professionals are in high demand as hotels, resorts, and bed and breakfasts seek to hire qualified staff with expertise in hospitality. The United States supports a healthy travel and tourism industry, and tourism also fuels the local economy of the Finger Lakes region.

FLCC's Hotel and Resort Management certificate program is designed for working or aspiring hospitality professionals who are looking to advance or launch a career in the hotel industry.

In this program, you'll explore different aspects of this field, such as hotel and resort operations, hospitality marketing, and food, beverage, and restaurant operations. Extensive hands-on training is included through a required professional work experience that taps into the knowledge of experts in the vibrant culinary and tourism industries of the Finger Lakes region.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 30 credit hours with a grade point average of no lower than C (2.0). For this certificate, you must successfully complete:

- ACC 101 Principles of Financial Accounting
- BUS 224 Human Resource Management
- CUL 100 Culinary Fundamentals
- CUL 105 Culinary Fundamentals Lab
- CUL 190 Food and Beverage Cost Controls
- HOS 101 Principles of Hotel and Resort Management
- HOS 105 Orientation to Hospitality
- HOS 135 Front Office Management
- HOS 220 Hospitality Marketing and Sales
- HOS 232 Event Management
- HPE 111 First Aid and Basic Life Support
- 1 credit Approved elective*
- Non-credit Program Requirement: 300 hours of Work Experience**

* Approved electives are any course with the prefix BUS, CUL, and HOS.

** Students are also required to complete 300 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or (585)785-1792.

Sample Schedule

The schedule below shows how the requirements for this certificate may be met in two semesters. For some students, fulfilling certificate requirements may take more than two semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (17 Credit Hours)

- ACC 101 Principles of Financial Accounting (4)
- BUS 224 Human Resource Management (3)
- CUL 190 Food and Beverage Cost Controls (3)
- HOS 101 Principles of Hotel and Resort Management (3)
- HOS 105 Orientation to Hospitality (1)
- HOS 220 Hospitality Marketing and Sales (3)
- Non-credit Program Requirement: 300 hours of Work Experience**

Second Semester (14 Credit Hours)

- CUL 100 Culinary Fundamentals (3)
- CUL 105 Culinary Fundamentals Lab (1)
- HOS 135 Front Office Management (3)
- HOS 232 Event Management (3)
- HPE 111 First Aid and Basic Life Support (1)
- Approved elective (3)*
- Non-credit Program Requirement: 300 hours of Work Experience**

* Approved electives are any course with the prefix BUS, CUL, and HOS.

** Students are also required to complete 300 hours of work experience in the Culinary/Hospitality Industry while matriculated in the Culinary Arts or Hospitality and Tourism Management degree programs to complement the classroom and laboratory requirements of the programs. For more information, please contact the Technical Specialist for Applied Learning and Internships, Jayden.Donahue@flcc.edu or (585)785-1792.

Natural Resources Conservation Certificate

The Program

You can earn a natural resources conservation certificate in as little as one year. FLCC's certificate program is designed for you if you plan to seek employment or if you are looking to grow your skills in the environmental conservation fields.

This program will also benefit you if you hold a degree in other disciplines that will pair well with conservation training. You also may be interested if you serve, or plan to serve, in an appointed or elected environmental decision-making position.

Furthermore, you may choose to progress to one of FLCC's conservation degree programs.

The Faculty

While enrolled in the natural resources conservation certificate program, you will benefit greatly from the teachings the knowledgeable faculty brings to the classroom. You can expect to receive theoretical knowledge in environmental conservation as well as practical field experience.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 29 credit hours with a grade point average of no lower than C (2.0). For this certificate, you must successfully complete the following:

- AGR 100 Soil Science
- BIO/CON 103 Environmental Science
- CON 100 First Year Experience in Conservation
- CON 102 Introduction to Fish and Wildlife
- CON 122 Applied Field Techniques
- CON 190 Conservation Field Camp
- SUNY General Education approved course in Basic Communication: Oral
- 3 credit hours of Conservation (CON) Electives
- 6 credit hours of Approved Electives

Approved Electives

Approved Conservation/Forest Resources/Water Resources Electives

- BIO/CON 246 Limnology
- CON 215 Unique Ecological Communities
- CON 217 Environmental Planning and Impact Analysis
- CON 229 Stream Ecology and Monitoring
- CON 235 Wetland Science and Practice

- CON 239 Introduction to Ecological Management Practices
- CON/FOR 243 Introduction to Sustainable Forest Management
- CON/FOR 244 Introduction to Forest Measurements
- CON 255/WFS 130 Wildland Fire Suppression
- CON/WFS 256 Fire Ecology
- WFS 212 Wildland Fire Chainsaws

Sample Schedule

The schedule below shows how the requirements for this degree may be met in two semesters. For some students, fulfilling degree requirements may take more than two semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (12 Credit Hours)

- AGR 100 Soil Science (3)
- CON 100 First Year Experience in Conservation (3)
- CON 122 Applied Field Techniques (3)
- Conservation Elective (3)

Summer Session (1 Credit Hour)

- CON 190 Conservation Field Camp (1)

Second Semester (16 Credit Hours)

- SUNY General Education approved course in Basic Communication: Oral (3)
- CON 102 Introduction to Fish and Wildlife (3)
- BIO/CON 103 Environmental Science (4)
- Approved Conservation Elective (3)*
- Approved Conservation Elective (3)*

Notes

* Approved Conservation/Forest Resources/Water Resources Electives:

- CON/FOR 243 Introduction to Sustainable Forest Management
- CON/FOR 244 Introduction to Forest Measurements
- CON/WFS 256 Fire Ecology
- CON/WFS 130 Wildland Fire Suppression
- CON 239 Introduction to Ecological Management Practices
- CON 235 Wetland Science and Practice
- CON 215 Unique Ecological Communities
- BIO/CON 246 Limnology
- WFS 212 Wildland Fire Chain Saws
- CON 217 Environmental Planning and Impact Analysis
- CON 229 Stream Ecology and Monitoring

Paralegal Certificate

The Program

Pursue your career goal of becoming a paralegal and get the education you need to prepare for entry-level employment in this rewarding field with FLCC's Paralegal certificate program.

If you hold an associate degree or higher college degree, our program will fast-track you into the job market and prepare you for successful employment opportunities upon graduation. Throughout your studies, you'll experience a core of paralegal courses that focuses on legal theory, practical legal skills, and experiential learning in industry-standard office environments.

As a Paralegal student, you will develop a thorough understanding of the United States court system, and you will learn the many areas of substantive law. In the classroom, you'll engage in assignments and projects that are identical to documents and court filings that are drafted by working paralegals.

Combined with your classroom experience, you'll complete your certificate with a capstone course that will either feature an internship or a law office practice course. Some of our students have landed internships with law firms, real estate companies, banks, and insurance companies.

Admission Requirements

If you have a college degree and would like to pursue a Paralegal certificate without the redundancy of additional general education courses, you're in the right place! In order to be admitted into our Paralegal certificate program, you must provide evidence of completion of either an associate or bachelor's degree with at least 18 credits in a liberal arts curriculum.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 27 credit hours with a grade point average of no lower than C (2.0). For this certificate, you must successfully complete the following:

Program Core

- PLG 100 Introduction to Legal Practice
- PLG 115 Computers in the Law Office
- PLG 125 Legal Research and Writing I
- PLG 210 Real Property
- PLG 225 Legal Research and Writing II
- PLG 230 Family Law
- PLG 235 Administration of Wills, Trusts, and Estates
- PLG 240 Courts and Litigation
- PLG 250 Paralegal Internship or PLG 265 Law Office Practice

Sample Schedule

The schedule below shows how the requirements for this degree may be met in two semesters. For some students, fulfilling degree requirements may take more than two semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (12 Credit Hours)

- PLG 100 Introduction to Legal Practice (3)
- PLG 115 Computers in the Law Office (3)
- PLG 125 Legal Research and Writing I (3)
- PLG 240 Courts & Litigation (3)

Second Semester (15 Credit Hours)

- PLG 210 Real Property Law & Practice (3)
- PLG 225 Legal Research and Writing II (3)
- PLG 230 Family Law (3)
- PLG 235 Administration of Wills, Trusts, and Estates (3)
- PLG 250 Paralegal Internship or PLG 265 Law Office Practice (3)

Smart Systems Technologies Certificate

The Program

The demand remains high for positions within the smart systems industries. Gaining the technical skills that translate to advanced manufacturing will give you an edge when seeking employment in this quickly evolving field.

FLCC's Smart Systems Technologies certificate provides technical skills and an in-demand education to increase your career options and generate new opportunities. Our faculty are committed to preparing you for job openings across a wide spectrum of high-tech industries, including automation control, electronics manufacturing, food processing, nanotechnology, and renewable energy.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 25 credit hours with a grade point average of no lower than C (2.0). For this certificate, you must successfully complete:

Program Core

- ESC 105 Engineering Graphics
- SST 174 Computing with LabVIEW
- SST 231 Smart Systems Technologies
- SST 232 Cyberphysical Automation Control I
- TECH 122 Electronic Theory
- TECH 123 Digital Electronics

General Education

- PHY 118 College Physics I
- SUNY General Education approved course in Basic Communication: Oral

Sample Schedule

The schedule below shows how the requirements for this certificate may be met in two semesters. For some students, fulfilling certificate requirements may take more than two semesters to complete.

When planning your schedule, you should consult with Sam Samanta at Sam.Samanta@flcc.edu.

First Semester (12 Credit Hours)

- PHY 118 College Physics I (4)
- SST 174 Computing with LabVIEW (2)
- TECH 122 Electronic Theory (3)
- SUNY General Education approved course in Basic Communication: Oral (3)

Second Semester (13 Credit Hours)

- ESC 105 Engineering Graphics (3)
- TECH 123 Digital Electronics (3)
- TECH 231 Smart Systems Technologies (3)
- TECH 232 Cyberphysical Automation Control I (4)

Teaching Assistant Certificate

The Program

If you envision yourself working in the classroom, FLCC's teaching assistant certificate program is for you!

In this program, you'll complete courses that will prepare you to test for certification through the New York State Department of Education.

You will also benefit from two required courses, EDU 101 Teacher Assistant I and EDU 102 Teacher Assistant II, which will prepare you for teacher assistant positions in the area of public education. These courses focus on federal and state laws and regulations, child and adolescent development and learning, classroom and behavior management and instructional strategies.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 24 credit hours with a grade point average of no lower than C (2.0). For this certificate, you must successfully complete the following:

Humanities (9 Credit Hours)

- ENG 101 Composition I
- ENG 209 Introduction to Children's Literature
- COM 100 Human Communication

Teaching Assistant (9 Credit Hours)

- EDU 101 Teacher Assistant I
- EDU 102 Teacher Assistant II
- EDU 200 Foundations of American Education

Social Science (3 Credit Hours)

- PSY 100 Introduction to Psychology

Mathematics (3 Credit Hours)

- MAT 180 Mathematics for Elementary School Teachers I

Sample Schedule

The schedule below shows how the requirements for this certificate may be met in two semesters. For some students, fulfilling certificate requirements may take more than two semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester (12 Credit Hours)

- ENG 101 Composition I (3)
- EDU 101 Teacher Assistant I (3)
- MAT 180 Mathematics for Elementary School Teachers I (3)
- PSY 100 Introduction to Psychology (3)

Second Semester (12 Credit Hours)

- ENG 209 Introduction to Children's Literature (3)
- COM 100 Human Communication (3)
- EDU 102 Teacher Assistant II (3)
- EDU 200 Foundations of American Education (3)

Viticulture Certificate

The Program

FLCC's Viticulture certificate program provides a practical education in viticulture, winemaking, and bottling. With the Viticulture certificate, you'll be prepared to continue your studies in our Viticulture and Wine Technology degree program, seek an entry-level position in the wine industry, or develop your winemaking skills as a hobbyist.

Your hands-on experience will include everything from the business of winemaking to practicing vineyard management techniques in our Teaching and Demonstration Vineyard. All FLCC Viticulture students also complete internships at wineries and vineyards throughout the Finger Lakes region.

Curriculum Requirements

As a student in this program, you are required to complete a minimum of 29 credit hours with a grade point average of no lower than C (2.0). For this certificate, you must successfully complete the following:

Core Courses

- CHM 121 General Chemistry I
- VIT 100 Introduction to Wines and Vines
- VIT 105 Basic Viticulture Techniques
- VIT 110 Summer Vineyard Technology Practicum
- VIT 115 Introduction to Enology Lab Techniques
- VIT 200 Vineyard Management
- VIT 205 Fall Wine Technology Practicum
- VIT 210 Enology I
- HPE 111 First Aid and Basic Life Support

Sample Schedule

The schedule below shows how the requirements for this certificate may be met in three semesters. For some students, fulfilling certificate requirements may take more than three semesters to complete. When planning your schedule, you should consult with your advisor.

First Semester: Spring (12 Credit Hours)

- CHM 121 General Chemistry I (4)
- VIT 100 Introduction to Wines and Vines (3)
- VIT 105 Basic Viticulture Techniques (3)
- VIT 115 Introduction to Enology Lab Techniques (2)

Second Semester: Summer (5 Credit Hours)

- VIT 110 Summer Vineyard Technology Practicum (5)

Third Semester: Fall (12 Credit Hours)

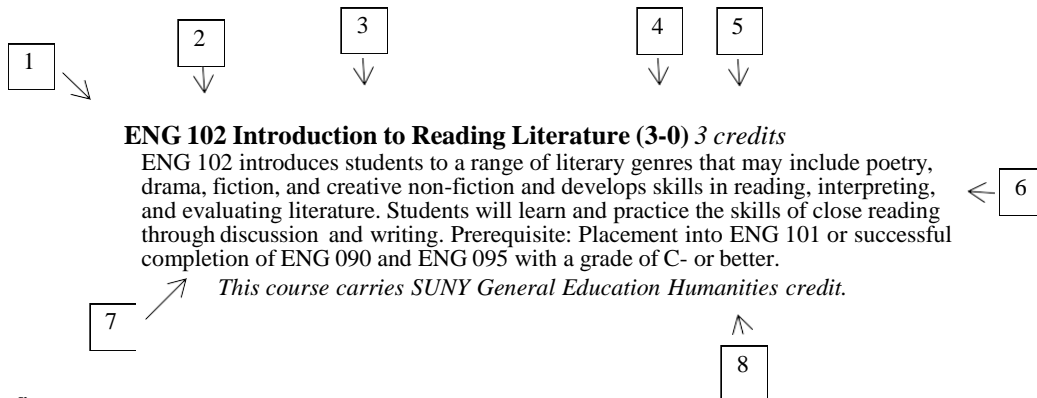
- VIT 200 Vineyard Management (3)
- VIT 205 Fall Wine Technology Practicum (4)
- VIT 210 Enology I (4)
- HPE 111 First Aid and Basic Life Support (1)

Course Descriptions

The following pages present descriptions of courses offered at Finger Lakes Community College. Students are advised to consult the official list of course offerings issued prior to the start of each semester before making up their schedules.

All courses offered at Finger Lakes Community College are equal to, in content and quality, freshman and sophomore courses offered at most four-year colleges and universities. Courses offered at Finger Lakes Community College are identified under the following system.

How to read a course description



ENG 102 Introduction to Reading Literature (3-0) 3 credits

ENG 102 introduces students to a range of literary genres that may include poetry, drama, fiction, and creative non-fiction and develops skills in reading, interpreting, and evaluating literature. Students will learn and practice the skills of close reading through discussion and writing. Prerequisite: Placement into ENG 101 or successful completion of ENG 090 and ENG 095 with a grade of C- or better.

This course carries SUNY General Education Humanities credit.

1. Prefix

Courses are listed alphabetically by their prefix. Prefixes appear in capital letters and range from two to four letters long. They indicate the course's subject matter. For example, ACC is the prefix for courses in the accounting subject area.

2. Course Number

A course number is assigned to identify the specific course and whether it is a first- or second-year course. Courses numbered in the 100s are considered first-year. Those numbered in the 200s are second-year courses. For example, ACC 101 is a first-year accounting course, and ACC 201 is a second-year accounting course.

3. Title

4. Lecture, Lab, or Contact Hours

The numbers in parentheses signify the number of lecture hours, lab hours, or other contact hours per week if the course is offered for 15 weeks. The first number is the lecture hours per week, followed by the lab hours. Occasionally these are followed by a third number designating additional contact hours of recitation or seminar.

5. Credit Hours

The number of credits you will earn for this course.

6. Description

7. Prerequisites

Certain courses require that you have prerequisites in order to add that course to your schedule. These courses are identified by the word "Prerequisite" at the end of the course description in WebAdvisor and in the College Catalog. Prerequisites may be successful completion of one or more college level courses with a C- or better unless otherwise noted and/or a minimum placement test score.

8. SUNY General Education Credit:

A number of courses have been approved by SUNY for General Education credit for transfer.

Co-requisite: Concurrent (simultaneous) enrollment in or prior successful completion of a companion course is required.

Imputed Credit: Credit assigned to remedial courses that can be used for financial aid purposes but does not count as fulfilling requirements for a degree

Course Abbreviations

ACC	Accounting
ADM	Advanced Manufacturing
AGR	Agronomy
ANT	Anthropology
ARC	Architecture
ART	Art
ASL	American Sign Language
BIO	Biology
BUS	Business
CDC	Chemical Dependency Counseling
CHM	Chemistry
CIN	Cinema
CJC	Criminal Justice
COM	Communications
CON	Conservation
CSC	Computing Science
CUL	Culinary Arts
DIG	Digital Media
EBL	Experienced Based Learning
ECO	Economics
EDU	Education
EMCR	Emergency Medical Services
ENG	English
ESC	Engineering Science
FOR	Forestry
FRN	French
FYS	First Year Seminar
FS	Freshman Seminar
GIS	Geographic Information Systems
GST	General Studies
HCS	Health Care Studies
HPE	Health and Physical Education
HIS	History
HON	Honors
HOS	Hospitality
HRT	Horticulture
HUM	Humanities
HUS	Human Services
MAT	Mathematics
MET	Mechanical Technology
MUS	Music
NS	Nutritional Science
NUR	Nursing
PHL	Philosophy
PHY	Physics
PLG	Paralegal
POL	Political Science
PSY	Psychology
SCI	Science
SOCSPN	SociologySpanish
SSC	Social Science
SST	Smart Systems Technology
TECH	Technology
THE	Theater
VIT	Viticulture
WFS	Wildland Fire Suppression

Dual-Listed Courses

The following courses are offered under two different course prefixes and are called “dual-listed.” Students opt for one of the two prefixes at the time of registration, depending on their curriculum requirements.

ANT/HIS 206	North American Indian History and Culture
ART/DIG 110	Digital Photography
BIO/CON 103	Environmental Science
BIO 221/CON 202	Principles of Terrestrial and Aquatic Ecology
BIO/CON 224	Dendrology and Field Botany
BIO/NUR 223	Pathophysiology
BUS/COM 122	Video Advertising
BIO/CON 246	Limnology
BUS/COM 203	Public Relations
BUS/CSC 212	MS Excel for Business Applications
COM/DIG 200	Audio for Film and Video
COM/ENG 125	Healthcare Communication
COM/ENG 223	Media Writing
CON/GIS 130	Introduction to Geographic Information Systems
CON/GIS 227	Applications of Global Positioning Systems
CON/SCI 220	Glacial Environments of the Finger Lakes
CON 255/WFS 130	Wildland Fire Suppression (S-130/S-190)
CON/WFS 256	Fire Ecology
ENG 213/THE 210	Dramatic Literature
HPE/THE 181	Mime
MUS 155/THE 105	Rehearsal and Performance

Accounting

ACC 101 Principles of Financial Accounting (4-0) 4 credits

The emphasis of this introductory course is to develop an understanding of accounting information systems for the business entity and for the individual. The basic concepts, procedures, business documents, and financial statements are included as they relate to the accounting cycle. Analysis of business decisions for internal and external aspects of the business is stressed.

ACC 102 Principles of Managerial Accounting (4-0) 4 credits

This course is an introductory course in managerial accounting. Fundamentals cost accounting concepts, financial statement analysis, profitability analysis, budgeting and decision making issues will be discussed. Prerequisite: ACC 101.

ACC 201 Intermediate Accounting I (3-0-1) 4 credits

Accounting I stresses a broader application of accounting principles. Theory is emphasized as it relates to valuation and changes in the financial position and operations of the business entity. Students will evaluate financial statements of business entities both quantitatively and qualitatively to expand their knowledge base regarding Generally Accepted Accounting Principles (GAAP) while learning how to adapt to changes in the standards of accounting practice. Prerequisite: ACC 102 or an A- or better in ACC 101, Co-requisite: ACC 102.

ACC 202 Intermediate Accounting II (3-0-1) 4 credits

A continuation of ACC 201, stressing a broader application of principles in previous accounting courses. Prerequisite: ACC 201.

ACC 205 Cost Accounting (3-0) 3 credits

A systematic study of the fundamental procedures applied in the determination of production costs and inventory balances. Analysis of cost behavior and decision-making for planning and control of the business are also covered. Prerequisites: ACC 102.

ACC 207 Income Tax Accounting (3-0) 3 credits

This course is designed to familiarize accounting students with aspects of income taxation of individuals and provide a foundation upon which they can act in either an advisory or functional capacity. Prerequisite: ACC 101.

ACC 210 Computer Applications in Accounting (3-0) 3 credits

This course provides an in-depth overview of current computer applications and how they can be used in the variety of accounting/business settings. Emphasis is placed on the more widely-used accounting packages (i.e. Quickbooks) in order perform the required tasks of an accountant (i.e. invoicing, accounts receivables and payable, auditing and control, payroll, taxes, financial statements, etc.). Prerequisite: ACC 101.

ACC 212 Accounting for Government and Not-For-Profit Agencies (4-0) 4 credits

Accounting for Governmental and Not-for-Profit Organizations (GNP) introduces students to the

basic concepts and techniques of fund accounting and the financial reporting for governmental and not-for-profit entities. The course focuses on the structure and utilization of financial information as it relates to GNP, including the following: applying and identifying correct reporting and accounting standards for GNP; preparing fund basis and government-wide statements for local and state governments; and preparing financial statements for private not-for-profit organizations. Prerequisite: ACC 201

Advanced Manufacturing

ADM 100 Introduction to Safety and Careers in Advanced Manufacturing (3-2) 3 credits

This course is designed for anyone interested in gaining employment in an in-demand occupation in the advanced manufacturing field. Candidates include: incumbent workers, High School seniors, non-traditional learners seeking a career change or to enter this field, and apprentices seeking related instruction for their DOL Occupation. The content of this course prepares students to safely step into a production based workplace and enter into additional coursework for advanced manufacturing. Learners will become familiar with the type of Manufacturing companies, the characteristics of Advanced Manufacturing and types of productions facilities. They will learn how to work in safe and productive manner, perform safety and environmental inspections, perform emergency drills and participate in emergency teams, identify unsafe conditions and take corrective action, provide safety orientation for all employees, train personnel to use equipment safely, suggest processes and procedures that support safety of work environment, fulfill safety and health requirements for maintenance, installation and repair, monitor safe equipment and operator performance, and utilize effective safety-enhancing workplace practices. This hybrid course will include online and hands on portions to provide real world experience.

ADM 200 Foundations in Advanced Manufacturing - Quality (3-2) 3 credits

This course is designed to serve those interested in entering the workforce for advanced manufacturing, incumbent workers of local companies, secondary HS seniors for technical skills development and apprentices in the local area that are required to gain related instruction for their DOL Occupation. The content of this course prepares students to safely step into a production-based workplace and enter into additional coursework for advanced manufacturing. The content includes: participating in periodic internal quality audit activities, checking calibration of gauges and other data collection equipment, suggesting continuous improvements, inspecting materials and product/process at all stages to ensure they meet specifications, documenting the results of quality tests, communicating quality problems, taking corrective actions to restore or maintain quality, recording process outcomes and trends, identifying fundamentals of blueprint reading, and using common measurement systems and precision measurement tools. Co-requisite: ADM 100

ADM 205 Foundations in Advanced Manufacturing - Production (3-2) 3 credits

This course is designed to serve those interested in entering the workforce for advanced manufacturing, incumbent workers of local companies, secondary HS seniors for technical skills

development and apprentices in the local area that are required to gain related instruction for their DOL Occupation. The content of this course prepares students to safely step into a production based workplace and enter into additional coursework for advanced manufacturing. The content for manufacturing processes and production includes: identifying customer needs, determining resources available for the production process, setting up equipment for the production processes, setting up team production goals, make job assignments, coordinate work flow with team members and other work groups, communication production and material requirements and product specifications, document product and process compliance with customer requirements and prepare final product for shipping and distribution. Co-requisite: ADM 100

ADM 210 Foundations in Advanced Manufacturing - Maintenance (3-2) 3 credits

This course is designed to serve those interested in entering the workforce for advanced manufacturing, incumbent workers of local companies, secondary HS seniors for technical skills development and apprentices in the local area that are required to gain related instruction for their DOL Occupation. The content of this course prepares students to safely step into a production based workplace and enter into additional coursework for advanced manufacturing. The content for Maintenance Awareness includes: Performing preventative maintenance and routine repair, monitoring indicators to ensure correct operations, performing all housekeeping to maintain production schedule, recognizing potential maintenance issues with basic production systems, including knowledge of when to inform maintenance personnel about problems with electrical systems, pneumatic systems, hydraulic systems, machine automation systems, lubrication processes, bearing and coupling, belts and chain drives. Co-requisite: ADM 100

Agronomy

AGR 100 Soil Science (3-0) 3 credits

A practical introduction to the composition and importance of soils. Topics covered: sampling, classifications and naming of soils with their various uses, nutrient components, analysis and management of nutrients, soil organisms, environmental and man-made damage to soils with discussions on mitigation. This course is foundational for a variety of environmental disciplines.

Anthropology

ANT 110 Human Prehistory (3-0) 3 credits

This course is a survey of human evolution—from the origin of humans up to the emergence of early civilizations. Our focus is on the introduction to early human biological and cultural variability emphasizing evolution, cultural adaptation and cultural change within different environments using the subfields of physical anthropology and archaeology. This course carries SUNY General Education Social Sciences credit.

ANT 111 Cultural Anthropology (3-0) 3 credits

An introduction to the ethnology that is the cross-cultural study of the diverse adaptive patterns human used to satisfy the requirements of life in specific natural and social-cultural

environments. Data will be drawn from contemporary nonindustrial and urban industrial societies to illustrate how and why cultural variations exist in today's ever-shrinking world. This course carries SUNY General Education Social Sciences and Other World Civilization credit.

ANT 200 Comparative Cultures (3-0) 3 credits

You have learned about the basics in Introduction to Cultural Anthropology; for instance, you know about hunting and gathering, matrilineages, big men, redistribution, and state type societies. Now we go deeper into this subject! We go on a survey of world cultures to see people living out all the basics you have learned in our Introduction to Cultural Anthropology course. We will start with some very simple societies and compare them to very complex cultures like our own. In a short phrase, we will go around the world in 16 weeks! This course will examine and describe the ways selected pre-literate and complex societies have used culture to adapt to their environments. Case studies drawn from American, Asian, African, and European societies will be the basis for engaging in cross-cultural studies. Prerequisite: ANT 111. This course carries SUNY General Education Other World Civilizations credit.

ANT 205 Principles of Archaeology (3-0) 3 credits

This course is intended to be a survey in archaeology for undergraduates that will lead to further studies in anthropology including an archaeological field school. This course will provide the students with an introduction to archaeological design, methods and theories, analytical techniques and analyses. The intent is for students to understand how people lived in the past, what they valued, and what challenges they faced within their associated ecosystems. This course will include some hands-on, practical field/lab experiences.

ANT 206 North American Indian History and Cultures (3-0) 3 credits

This course introduces student to the historical and cultural experiences of the various indigenous populations of North American. Additionally, special emphasis will be given to a number of specific indigenous groups within the 10 cultural regions of North America as we examine this topic from a compassionate yet unromanticized historiographical and cultural perspective. In short, we will work from the premise that Native Americans were active participants in producing that past, both before and after the European contact as opposed to being solely victims of oppression; we do this in order to gain a greater appreciation for their rich and diverse history and cultural status today. Through the lens of anthropology and history, this course will discuss and examine the various native cultures of North America to include: their origins and cultural development through time; the underlying similarities and the wide range of variability within these native societies; the impact of European cultural systems on these groups, and finally, we examine Native American societies as they are today. Prerequisite: ENG 101 (Also listed as HIS 206) This course carries SUNY General Education Other World Civilizations credit.

Architecture

ARC 105 Architectural Drawing (2-4) 3 credits

Architectural Drawing provides an overview of the architectural profession with a focus on its primary medium of graphic presentations. This course is intended for Architectural Technology majors and students interested in drawing and the architectural profession. Architectural Drawing introduces the fundamental concepts related to sketching, drawing, and technical drafting. Topics that will be explored include drawing equipment, sketching, line weights, geometric constructions, orthographic, axonometric & isometric views, and perspectives. Students will create original work and study existing architectural works through sketching and the construction of diagrams, plans, and renderings. Additionally, students will gain an introductory understanding of the architectural profession including the path to licensure and the expectations of a graduate architect and that of a licensed professional. The class includes both lecture and laboratory time. Successful completion of this class will prepare students for ARC 106 Architectural Drawing in Digital Media.

ARC 106 Architectural Drawing in Digital Media (2-4) 3 credits

This course is intended for Architectural Technology majors and students interested in digital drawing and the architectural profession. Students will create two and three dimensional digital drawings using a variety of industry standard graphic software. Lectures, demonstrations, and labs in a variety of applications will enhance the student's CAD ability and professional development. Students will create original works and study existing architectural works through digital design and drafting. This class includes both lecture and laboratory time. Successful completion of this class will prepare students for the ARC 244 Residential Design class. Prerequisite ARC 105.

ARC 110 Architecture History: Prehistory - 1880 (3-0) 3 credits

Architectural History: Prehistory-1880 focuses on major architectural styles from inception to the late 19th century and the architects who helped to define those styles. The course will cover the major architectural styles prior to 1880 including Prehistoric and Classical Antiquity (Classical, Greek, Roman and Byzantine) through Renaissance, Baroque and Neoclassicism. The course focuses on the symbiotic relationship between the built environment and culture. Students will learn about the various catalysts and historic contexts that resulted in the transition of styles and the details and intricacies that defined each style. The course is appropriate for students studying architectural design and any students interested in architecture as a Humanities or Western Civilizations elective, including art and liberal art students. This course carries SUNY General Education Humanities and Western Civilization credit.

ARC 120 Architecture History: 1880-Present (3-0) 3 credits

Architectural History: 1880-Present focuses on major styles of the late 19th and 20th century and the architects who helped to define those styles. The course focuses on the symbiotic relationship between the built environment and culture. Students will learn about the various catalysts and historic contexts that resulted in the transition of styles, as well as the major historic movements that resulted in the international coordination of architects that have brought us to the current Modern Architecture styles of today. The course is appropriate for students studying architectural design and any students interested in architecture as a Humanities or Western Civilizations elective, including art and liberal art students. This course carries SUNY General Education Humanities and Western Civilization credit.

ARC 130 Construction Material (3-0) 3 credits

ARC 130 Construction Materials is intended for Architectural Technology majors and students interested in construction and the architectural profession. This course provides an introduction to the properties and use of materials employed in construction. Topics that will be covered include analysis of construction materials, understanding the architect's process in selecting materials for designs, and various construction techniques. The material covered in this class is presented in a lecture format with field trips. Successful completion of this class will prepare students for the ARC 244 Residential Design class.

ARC 242 Construction Management (3-0) 3 credits

ARC 242 Construction Management is intended for Architectural Technology majors and students interested in construction law and the architectural profession. This class provides an overview of principles and practices in the administration of a construction project. Topics include construction means and methods, contractual obligations, and the architect's role leading up to and throughout the construction of a project. The material covered in this class is presented in a lecture format.

ARC 244 Residential Design (2-4) 3 credits

ARC 244 Residential Design is intended for Architectural Technology majors. Students will be introduced to the fundamental concepts required for the design of residential structures. Students will study historically significant architectural works. Using these works as precedence students will complete several design vignettes for residential structures. Throughout the semester students will explore topics that include various architectural drawings and presentations, architectural history, building codes and sustainability. The semester will culminate with a public oral presentation of an original residence expressed through models, drawings and digital images. The material covered in this class is presented in a lecture format with laboratory studies and field trips. Successful completion of this class will prepare students for the ARC 246 Commercial Design class. Prerequisite: ARC 106, ARC 130

ARC 246 Commercial Design (2-4) 3 credits

ARC 246 Commercial Design is intended for Architectural Technology majors. Students will be introduced to the fundamental concepts required for the design and drafting of commercial structures. Throughout the semester students will explore topics that include various architectural drawings and presentations, building codes and ordinances, ADA requirements, and sustainability. Students will spend the semester working through an original design and developing that design to incorporate codes and building systems. The semester will culminate with an oral presentation of this developed design of a commercial structure and will be expressed through models, drawings and digital images. The material covered in this class is presented in a lecture format with laboratory studies and field trips. Prerequisite: ARC 244.

ARC 248 Structural Design (3-2) 4 credits

ARC 248 Structural Design is intended for Architectural Technology majors. Students will be introduced to the fundamental concepts related to structural design and analysis. Topics covered include 1) forces, 2) trusses, 3) shear & bending moment diagrams, 4) properties of sections, 5) estimating live & dead loads, 6) designing wood beams, columns, & connections, and 7) designing steel beams, columns, and connections. The material covered in this class is presented in a lecture format. Prerequisite: MET 216

ARC 249 Building Mechanical Systems (3-0) 3 credits

ARC 249 Building Mechanical Systems is intended for Architectural Technology majors. This course will present an overview of the principles and practices used in the design of mechanical systems for buildings. Students will study the design and selection of HVAC, plumbing and electrical systems and the architect's role in selecting these systems. To better accommodate the global initiative to focus on more sustainable design, it is necessary for the prudent architect to holistically integrate the architecture and mechanical systems of a building. The material covered in this class is presented in a lecture format.

Art

ART 100 Art History: Prehistory to Middle Ages (3-0) 3 credits

A study of the history of the creative process and artistic expression from prehistoric art to the middle ages. Topics may include the art and architecture of Ancient Egypt, Greece, and Rome. This course may be taken to fulfill either a humanities or social science elective. This course carries SUNY General Education Humanities and The Arts credit.

ART 101 Art History: Renaissance to Modern Art (3-0) 3 credits

A study of the history of the creative process and artistic expression from the Renaissance to the present. Topics may include Renaissance, Baroque, Impressionist, and modern art. This course may be taken to fulfill either a humanities or social science elective. This course carries SUNY General Education Humanities and The Arts credit.

ART 102 Foundation Drawing I (4-0) 3 credits

This course give students an introduction to all the basic skills of observation, free-hand drawing and critique. It is a foundation for all studio courses. Craftsmanship and development of techniques in a variety of media is demonstrated through the creative process. This course carries SUNY General Education The Arts credit.

ART 103 Foundation Drawing II (4-0) 3 credits

In this course, students will continue to hone their developing skills of observation, freehand drawing and critique. Students will be introduced to more complex media techniques, color and design. Prerequisite: ART 102.

ART 104 Design I (4-0) 3 credits

In this course students will understand and use two-dimensional design in the creation of a physical product in order to communicate verbally and visually. Students will develop ways to persevere through giving and receiving critical feedback as part of the creative process. This course carries SUNY General Education The Arts credit.

ART 105 Design II (4-0) 3 credits

In this course students will understand and use three-dimensional design in the creation of a physical product in order to communicate verbally and visually. Students will develop ways to persevere through giving and receiving critical feedback to use as positive tools within the creative process. Prerequisite: ART 104.

ART 106 Ceramics I (4-0) 3 credits

A study of the basic techniques of ceramic materials, including pinch, coil and slab building, wheel throwing, firing and glazing. Ceramics as an art form with an emphasis on design and function.

ART 109 Art Portal (2-0) 2 credits

This first year seminar course is designed to introduce Fine Art and Graphic Design students to the basic ideas and concepts of what it means to be an artist and or designer. Students will develop a plan for developing a portfolio prior to graduation. Basic Macintosh computer skills, an introduction to college computing, individualized student support, college survival skills, and career planning will also be included in the course.

ART 110 Digital Photography (4-0) 3 credits

This course is designed to provide an introduction to digital photography and will cover the creative process and appreciation of methods of artistic expression through projects and exercises. The course will cover the parts of the camera and how they are used, technical and practical aspects of the digital camera, the composition of photographs using principles of art, critical analysis of photographs through peer critique and the study of notable artists, the use of image editing software and editing and manipulating photographs, and output options. The class will also cover basic techniques for improving picture quality. (Also listed as DIG 110) This course carries SUNY General Education The Arts credit.

ART 115 Computer Imaging (4-0) 3 credits

Students get an in-depth look at image-making from the perspective of creating art using vector based and pixel based programs. Students express themselves from brainstorming through to thumbnail sketches. Students get comfortable in a desktop environment and are taught best practice for file directory building and selection of applications appropriate to the project being created. Students develop a practice using the tools necessary for a graphic designer including scanning, printing, image manipulation, vector drawing and the preparation of files for presentation. This course carries SUNY General Education The Arts credit.

ART 116 Computer Publishing (4-0) 3 credits

Students are introduced to the idea of using a computer as a means of creating and sharing visual content. Print and digital publishing are explored. Students are exposed to the considerations inherent to the process of creating published communications. Attention is focused on proper use of color, typography, and image preparation. Students are also exposed to best practices in presenting work digitally and in print. Focus is placed on professional presentation of deliverable publications. Prerequisite: ART 115.

ART 125 A Global Introduction to Art (3-0) 3 credits

This is an introductory, General Education course designed for the non-art major. This course provides a framework and language for describing, interpreting, and appreciating art. It explores fundamental questions associated with art across diverse cultures (western and non-western) and throughout history. For example, we consider what art is, why we make art, the art making process, and the ways in which art reflects its cultural and historical moment. Topics are approached thematically rather than chronologically, and content is presented through lectures,

discussion, hands-on studio exercises, and student group work and presentations. This course carries SUNY General Education The Arts credit.

ART 200 Figure Drawing I (4-0) 3 credits

Representation and dynamic drawing of human figure based on observation of organic relationship, gestures, action, motion and rhythm. Prerequisite: ART 103.

ART 201 Figure Drawing II (4-0) 3 credits

A continuation of Art 200. Drawing from figures to develop proportion, structure, gesture, movement and composition in various media. Prerequisite: ART 200.

ART 202 Painting I (3-3) 3 credits

In this course students will have an introduction to the medium of oil paint, using still life and portraiture as the basis for the study of color and form. Prerequisites: ART 102, ART 103.

ART 204 Painting II (3-3) 3 credits

In this course students will continue to use oil paint as the primary medium, but the focus will be primarily on developing a personal approach to thematic content. Students will establish their visual vocabulary and strengthen their oral communication skills through interaction with their colleagues and the instructor. Prerequisite: ART 202.

ART 205 Modeling and Sculpture (6-0) 3 credits

An introductory examination of the materials and processes used in creating three-dimensional objects. The techniques of modeling with plasteline, plaster and wire along with casting in plaster and bronze will be covered. An introduction to 3D printing technology will be included. Subjects will range from portraiture to abstraction. Prerequisite: ART 102, ART 104

ART 206 Modeling and Sculpture II (4-0) 3 credits

A continuation of ART 205, with an emphasis on individual student projects. Students will further an understanding of three-dimensional form by working with different processes and media such as: woodworking, welding, carving and casting in bronze. Prerequisite: ART 205.

ART 209 Printmaking (6-0) 3 credits

An introductory survey of the materials and processes used in the production of multiple fine arts prints. Basic techniques of relief, collagraph, intaglio and screen printing will be explored from both traditional and contemporary aspects. Prerequisite: ART 102, ART 104.

ART 212 Ceramics II (4-0) 3 credits

A continuation of ART 106. The course will introduce the student to more challenging techniques and processes, expanding the scope and dimension of previously learned material. Prerequisite: ART 106.

ART 213 History of American Art (3-0) 3 credits

A survey of American art and architecture from the colonial period to the present. This course carries SUNY General Education The Arts credit.

ART 215 Graphic Design I (3-3) 3 credits

Students are exposed to the different stages of the process of developing visual communication, from research and development on through to reflection and refinement. The practice of documenting the creative process and honing presentation skills will be emphasized. Students apply and explore design principles as they take on design challenges and experiment with the development of their own style. Priority is placed on understanding typography, color, image manipulation and audience in the development of a successful visual solution to communicate a vision. Prerequisite: ART 105.

ART 216 Graphic Design II (3-3) 3 credits

Students will develop new work based on design challenges while reworking and refining previous works. There is a focus on preparing solutions for an audience with an understanding of the language appropriate for professional communication in the graphic design field. Students will then practice visual and verbal presentation techniques. The course culminates in the development of a graphics portfolio for entry into the job market or the next level of education. Prerequisite: ART 215.

ART 218 Advanced Digital Photography Methods (3-3) 3 credits

This course offers advanced photographic instruction for those with experience in digital photography. It expands upon the skills related to the capture, editing and printing of digital images. Emphasis will be on artistic expression, conceptual development and style through the use of digital technology. Prerequisite: ART/DIG 110.

ART 220 Graphic Illustration (4-0) 3 credits

Students are challenged with exploring various mediums to communicate a message visually. Emphasis is on drawing and development of imagery based on references. Students develop solutions based on clients' needs.

ART 221 Advanced Drawing (4-0) 3 credits

This course will emphasize the development of students' visual vocabulary and more personal approaches to media, techniques, and thematic content. This course will be offered in the fall semester. Prerequisite: ART 103.

ART 222 Design for the Web (4-0) 3 credits

The course will offer students a comprehensive understanding of design issues related to web site planning and creation. Students will explore methods of multimedia design and production. While developing a basic technical understanding of this technology, students will focus on visual and informational issues. Prerequisite: ART 115, ART 215.

ART 223 Women in Art (3-0) 3 credits

A survey of the work of women painters, sculptors, architects, designers, photographers, and craftspersons from earliest times to the present. Woman as image in the visual arts will also be examined as it relates to her role in society. Prerequisites (for art students): ART 100, ART 101.

ART 250 Graphic Design Internship 3 credits

The Internship provides a hands-on work experience for the Graphic Design student in a

professional work environment. A minimum of 120 work hours will be required. Students will be required to enter into an internship contract, complete an orientation, and submit a portfolio and written report at the conclusion of the work experience. Prerequisite: ART 215, instructor approval and a minimum GPA of 2.5. (Satisfactory or Unsatisfactory grade).

ART 251 Portfolio Prep (2-0) 1 credit

In this course students will foster their role as a participant in the creative community in the form of a finished professional portfolio and related materials relevant to college transfer and career opportunities. Prerequisite: ART 103, ART 109

American Sign Language

ASL 101 American Sign Language I (3-0) 3 credits

This course is the first in a series of courses designed to develop the skills and knowledge needed to communicate in American Sign Language. ASL 101 is an introductory level course that establishes a novice range of communication skills. This course emphasizes the cultural practices distinct to those that approach the world from a visual perspective. Topics include: historical events that have impacted the language and culture of the D/deaf community; the distinct cultural practices; and, comparison of language features. This course carries SUNY General Education World (Foreign) Language credit.

ASL 102 American Sign Language II (3-0) 3 credits

This course is the second in a series of courses designed to develop the skills and knowledge needed to communicate in American Sign Language. ASL 102 is an introductory level course that develops a novice range of communication skills with the ability to expand discourse based on prior knowledge. This course emphasizes the cultural behaviors and practices distinct to those that approach the world from a visual perspective. Topics include: contemporary events and issues that impact the D/deaf community; linguistic minority groups; and language features. Prerequisite: ASL 101 or requisite experience. This course carries SUNY General Education World (Foreign) Language credit.

ASL 111 Signing for the Health Care Professions (3-0) 3 credits

This course is designed for the purpose of addressing the communicative needs between health care professionals and the deaf community. Target specific vocabulary, conversational phrases, and context specific situational interactions will be the main objectives. Topics on cultural practices and interactions common in the deaf community will be discussed. In addition, the law, Americans with Disabilities Act (ADA) specific to the deaf patient, and the role of interpreters in the health care setting will be addressed.

ASL 115 Conversational Sign American Sign Language (3-0) 3 credits

This course is designed to provide immediate access to functional Sign Language. Skills targeting conversational exchanges will be developed along with cultural awareness. The goal is to minimize or eliminate barriers to communication in exchanges with deaf people. The vocabulary presented will be tailored to the specific needs of the students enrolled in the course and their target occupation. In addition, situational specific role-playing will be practiced. No

prior knowledge of Sign Language is necessary. This course carries SUNY General Education World (Foreign) Language credit.

ASL 201 American Sign Language III (3-0) 3 credits

This course is the third in a series of courses designed to advance the skills and knowledge needed to communicate in American Sign Language. ASL 201 develops a novice-high range of communication skills with the ability to expand discourse on a variety of topics. This course emphasizes the cultural practices distinct to those that approach the world from a visual perspective. Topics include: analysis of local, national, and global issues; examination of cultural norms, attitudes, and values of Deaf people; linguistic minority groups and access to society. Prerequisite: ASL 102 or requisite experience. This course carries SUNY General Education World (Foreign) Language credit.

ASL 202 American Sign Language IV (3-0) 3 credits

This course is the fourth in a series of courses designed to advance the skills and knowledge needed to communicate in American Sign Language. ASL 202 develops a novice-high to intermediate range of communication skills with the ability to convey information, concepts, and ideas in ASL on a variety of topics. This course emphasizes articulating the cultural practices and products distinct to those that approach the world from a visual perspective. Topics include: analysis of a linguistic, political, or social issue; examination of products of Deaf culture; and, exploration of career pathways. Prerequisites: ASL 201 or requisite experience. This course carries SUNY General Education World (Foreign) Language credit.

ASL 210 Capstone American Deaf Culture and Community (3-0) 3 credits

This course is the culmination of the A.A. Degree in American Sign Language. The course is designed to encompass all the skills and knowledge necessary to think critically and to present on topics related to Sign Language and its users. Inquiry into American Deaf culture and the community of the D/deaf will expand one's critical understanding of how linguistic minority cultures function and perhaps thrive within broader society. Examination of Deaf culture and the D/deaf community will culminate in a comprehensive project that captures the learner's experiences and knowledge of the language, the culture, and the community of the Deaf. Prerequisite: ASL 201 or requisite experience. Co-requisite: ASL 202.

ASL 211 ASL: Fingerspelling and Numbering (3-0) 3 credits

This course provides targeted development to advance student's skills in fingerspelled word recognition and numbering in American Sign Language. Practice in specific skills that underlie the fingerspelled word recognition process, and practice in correctly recognizing fingerspelled words and numbers in context. In addition to receptive skill development, students will hone their articulation and production of fingerspelling and numbering. Prerequisite: ASL 102 or requisite experience

Biology

BIO 103 Environmental Science (3-2) 4 credits

This course investigates the interactions and relationships between humans and the Earth. It provides the scientific foundation for analyzing today's pressing environment issues and solutions for a sustainable future. Students will gain an understanding and appreciation of the impact of humans on other living organisms, water, air, soil, fossil fuels, and mineral resources. In analyzing potential solutions to these environmental issues, students will evaluate the impact of their own choices on the Earth's resources as well as the relative role of governments in setting sustainable policies. In the laboratory component of the course, students will learn scientific methodology, sampling procedures and methods used to test environmental quality. A portion of the lab will include outdoor experiences. (Also listed as CON 103)

BIO 110 Fundamentals of Human Anatomy and Physiology (3-0-1) 3 credits

This course provides an overview of the foundational concepts of human anatomy and physiology. Students investigate relationships between form and function. Major concepts include anatomical terminology, basic biochemistry, cells and tissues, and the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, and urinary systems. An introduction to common human disease processes is included. Prerequisite: Successful completion of all required remedial courses.

BIO 110L Fundamentals of Anatomy and Physiology Lab (0-2) 1 credit

This hands-on laboratory course is intended for students pursuing the A.S. Physical Education & Exercise Science program. Students will perform experiments that integrate and apply fundamental concepts learned in the lecture portion of BIO 110 Fundamentals of Anatomy and Physiology. Analyses will be done at both microscopic and macroscopic levels utilizing representative anatomical models. Sample laboratory skills that students will practice include tissue microscopy, bone and muscle identification, organ dissection, and cardiovascular and respiratory measurements. Co-requisite: BIO 110

BIO 115 Human Biology (3-2) 4 credits

This course approaches basic biological principles from a human perspective. It is a principles course with a laboratory designed for non-science majors. Basic cell biology, systems anatomy and physiology, evolution and human ecology are broadly discussed. Prerequisite: Successful completion of all required remedial courses. This course carries SUNY General Education Natural Sciences credit.

BIO 118 Contemporary Biology I (3-2) 4 credits

An introductory biology course with laboratory designed for non-science majors. Topics covered include: the scientific process, cells, biochemistry, cellular metabolism, genetics, and biotechnology. The emphasis is on application of basic biological principles to contemporary issues and problems. Students will achieve basic scientific literacy with a goal of improved critical thinking, writing, and problem-solving skills. Prerequisite: Successful completion of all required remedial courses. This course carries SUNY General Education Natural Sciences credit.

BIO 119 Contemporary Biology II (3-2) 4 credits

Part II of an introductory laboratory biology course with for non-science majors. Topics covered in part II include: Evolution, biodiversity, plant and animal anatomy and physiology, ecology, and environmental science. The emphasis is on application of basic biological principles to contemporary issues and problems. Students will achieve basic scientific literacy with a goal of improved critical thinking, writing, and problem-solving skills. Prerequisite: BIO 118 This course carries SUNY General Education Natural Sciences credit.

BIO 121 General Biology I (3-2) 4 credits

This lab-based course is intended to provide an overview of the basic principles of biology for students pursuing degrees in science or mathematics. Topics include scientific inquiry, biochemistry, cell structure and function, cell metabolism, and genetics. Prerequisite: Successful completion of all required remedial courses. This course carries SUNY General Education Natural Sciences credit.

BIO 122 General Biology II (3-2) 4 credits

A study of evolutionary concepts and survey of taxonomic levels of organization (domain, kingdom, phylum, class, order, family, genus, species). Emphasis will be on anatomical/physiological adaptations, life history traits and ecology of representative organisms. Prerequisite: BIO 121. This course carries SUNY General Education Natural Sciences credit.

BIO 125 Foundations of Life Science (3-2) 4 credits

This course is a brief overview to the unifying concepts in biology including, but not limited to molecular, cellular, metabolic, genetic, evolutionary, and whole organismal biology. This course relates the relevant concepts of living organisms to their environment. The laboratory component supports and reinforces lecture content. Prerequisite: Successful completion of all remedial courses. This course carries SUNY General Education Natural Sciences credit.

BIO 165 Kinesiology and Myology I (3-3) 4 credits

Lecture and laboratory course designed to acquaint students with the detailed study of the major muscles of the torso and pelvis and their function. Focus will be placed on the origin, insertion, action, innervations, and range of motion of specific muscles. This course includes the study of name, shape, and location of bones and tendons as well as their related joints. Prerequisite: BIO 171 and Co-requisite: BIO 172.

BIO 171 Human Anatomy & Physiology I (3-2-1) 4 credits

This course provides an in depth analysis of the structure and function of the human body dealt with at the following levels of organization: chemical, biochemical, cellular, tissue, organ and organ system. Students discuss anatomical and physiological interrelationships and homeostatic mechanisms as they pertain to normal health and disease. Organ systems covered include the integumentary, skeletal, muscular, nervous and closely related special senses. A laboratory component is included and involves analysis done at both microscopic and macroscopic levels. Students obtain hands-on experience with disarticulated bones, muscle models, and selected dissections. Prerequisite: Successful completion of all required remedial courses. This course carries SUNY General Education Natural Sciences credit.

BIO 172 Human Anatomy & Physiology II (3-2-1) 4 credits

This course is a continuation of BIO 171, providing an in depth analysis of the systems not covered in Human A&P I (ie. cardiovascular, respiratory, digestive, urinary, reproductive and

endocrine systems, along with genetics, fluid, electrolyte and pH balance). Students further develop their explanations of anatomical and physiological interrelationships and homeostatic mechanisms as they pertain to normal health and disease. The laboratory component will reinforce skills introduced in A&P I (eg. microscopic and macroscopic levels of analysis, and mammalian dissection) while adding additional physiological experiments (eg. cardiovascular, digestive, and hematological). Prerequisites: BIO 171. This course carries SUNY General Education Natural Sciences credit.

BIO 210 Winter Ecological Adaptations and Field Techniques (0-0-3) 3 credits

A combination of lecture and field work will be used to gain a proficiency in the over wintering adaptations of organisms in the northeast, specifically the Finger Lakes region. Adaptations of mammals will be emphasized. Lectures will focus on identification, natural history, behavior, physiology and ecology of mammals. Laboratory will include field trips to various habitats in and around Honeoye, NY, identification of animal signs, and mark & recapture techniques to assess habitat selection of small mammals residing in the subnivean environment.

BIO 214 Herpetology: Natural History and Field Techniques of NY State Amphibians and Reptiles (3-2) 4 credits

An investigation of amphibians and reptiles of NY State, specifically the Finger Lakes Region, including, but not limited to ecology, behavior, natural histories, environmental impact and evolutionary relationships. A 5 day residential component for Amphibian and reptile identification and learning field sampling techniques will be an integral part of this course. Evaluation of students is based on 1) class participation, 2) group summary of field project, 3) critique of oral presentation of natural history of a species, 4) maintenance of a field journal, 5) identification of amphibians and reptiles of northeast. Prerequisite: BIO 122.

BIO 221 Principles of Terrestrial and Aquatic Ecology (3-0) 3 credits

This course is designed for second year students in Horticulture and Conservation degree programs. An introduction to the scientific study of the interactions between organisms and their environment. Students examine the influence of biotic and abiotic variables on species evolution, population dynamics, and community composition. Students are required to conduct an independent field study to integrate and reinforce ecological concepts learned throughout the degree program. Prerequisites: BIO 121 or BIO 125. (Also listed as CON 202)

BIO 221L Principles of Terrestrial and Aquatic Ecology Lab (0-2) 1 credit

In this hands-on laboratory-based course, students will have the opportunity to conduct studies and perform experiments that enrich their knowledge and understanding of the scientific concepts learned in the lecture portion of CON 202/BIO 221 Principles of Terrestrial/Aquatic Ecology. Laboratory exercises will include a combination of field trips and observational and experimental studies as well as in-classes exercises aimed at preparing students for upper level coursework in the field of ecology (e.g. reading scientific papers, presenting data, interpreting graphs). Prerequisite: ENG 101, BIO 121 and BIO 122, or BIO 125. Co-requisite: BIO 221. (Also listed as CON 202L)

BIO 222 Introduction to Cell Biology (3-0-1) 3 credits

This course is designed to provide students with an intense study of cell structure and function. A wide range of topics will be covered and will include: biochemistry, membrane structure and

function, organelle structure and function, the cell cycle and cancer, necrosis and apoptosis, cell signaling, and the cellular basis of tissue structure. Prerequisite: BIO 121.

BIO 223 Pathophysiology (3-0) 3 credits

This course is designed for students who wish to apply their knowledge of physiology to disease states occurring across the lifespan. The course will consist of a review of the normal functioning of selected body systems, and then analysis of pathological function during disease of those systems and standard treatment for these pathological conditions. Prerequisite: BIO 172 (Also listed as NUR 223)

BIO 224 Dendrology and Field Botany (2-0-2) 3 credits

Field study, identification and natural history of non-woody and woody plant species and the communities to which they belong. Uses of forest trees by humans and wildlife is emphasized. (Also listed as CON 224)

BIO 230 Microbiology (3-3) 4 credits

The course is designed to give the student a broad understanding of microbiology covering areas of microbial structure and function, growth, metabolism, genetics, control of microorganisms, principles of immunology, diseases of man and selected aspects of applied microbiology. The laboratory will give the student an appreciation of the problems and methods involved with culturing and identification of microorganisms. Prerequisite: BIO 121 & 122, or BIO 171 & 172.

BIO 240 Principles of Genetics (3-0) 3 credits

A course designed to introduce the student to the aspects of modern genetics. Topics will include: gene structure and function, Mendelian genetics, gene expression, recombinant DNA technology, population genetics with attention given to human aspects and applications. Prerequisite: BIO 121 or BIO 171; Corequisite: BIO 241.

BIO 241 Laboratory in Genetics (0-3) 1 credit

A laboratory offering to compliment BIO 240. This course provides a variety of laboratory experiences including classical, morphological, and molecular genetics. Corequisite: BIO 240.

BIO 246 Limnology (3-2) 4 credits

An introduction to the scientific study of inland waters, limnology concerns itself with all the factors that affect living populations within those waters. Through lecture and field experiences, the student will become familiar with physical and chemical processes in water, especially those that have a direct effect on biological organisms. Standard methods and highly technical instrumentation will be used on board the college's educational vessel. A survey of life forms and identification skills will be emphasized as well as aquatic community structure and interactions. (Also listed as CON 246)

BIO 251 Plant Structure and Function (3-3) 4 credits

This course is an integrated approach to the study of plant anatomy and physiology dealing with both the total plant and its constituent parts. Emphasis is on plant growth, development and regulatory mechanisms. The student will follow the growth of a plant from germination to

maturity, examining its anatomical and physiological development. Prerequisite: BIO 121 or BIO 125.

BIO 265 Kinesiology and Myology II (3-3) 4 credits

This is a lecture and laboratory course designed to acquaint students with a detailed study of the major muscles of the upper torso and extremities of the body and their functions, including a brief review of the muscles of the lower extremity covered in Kinesiology and Myology I. Focus will be placed on the origin, insertion, action, innervation, and range of motion of specific muscles. This course includes the study of the name, shape, and location of bones and tendons, as well as their related joints. Prerequisite: BIO 165 with a grade of 'C' or better.

BIO 283 Biotechnology Module 3- Electrophoresis (0-1.5) 1 credit

A laboratory module introducing the student to polyacrylamide and agarose gel electrophoresis. Seven weekly laboratory exercises (3 hours each). Prerequisite: BIO 121.

BIO 286 Cell and Tissue Culture Techniques (0.5-1) 1 credit

A laboratory module introducing students to the basic techniques used in culturing tissues and cells. An emphasis will be placed on mammalian systems. Topics covered include sterile and aseptic technique, media preparation, cell count and viability cryopreservation, subculturing, and research applications using cell cultures. (3 hours each). Prerequisite: BIO 121.

BIO 287 Introduction to Biomanufacturing I (1-1/2) 1 credit

Students in the Introduction to Biomanufacturing I course will learn how a biopharmaceutical makes its way from “bench to bottle.” Upstream and downstream manufacturing processes will be introduced through a combination of lecture and laboratory (hands-on) activities. Students will be introduced to regulatory affairs and will follow proper documentation procedures as outlined in the Good Laboratory and Good Manufacturing Practices (Food and Drug Administration). Prerequisites: BIO 121, BIO 122.

BIO 288 Introduction to Biomanufacturing II (1-1/2) 1 credit

Introduction to Biomanufacturing II is a continuation of Introduction to Biomanufacturing I. While part I introduced students to the process of bringing a biopharmaceutical from “bench to bottle,” this course focuses on the many functional areas specific to a biomanufacturing operation. Through a combination of lecture and laboratory (hands-on) activities, students will be introduced to the roles of these functional areas in the manufacturing process. Included in this exploration are the roles of technicians working in Environmental Health and Safety, Quality Control, Quality Assurance, and Validation. In addition, students will be exposed to basic analytical tools used in a manufacturing environment (RCA and FMEA). Students will continue the application of regulatory affairs introduced in part I of the course, and will follow proper documentation procedures as outlined in the Good Laboratory and Good Manufacturing Practices (Food and Drug Administration). Prerequisite: BIO 121, BIO 122, BIO 287.

BIO 291 Research Methods in Biology (2-4) 3 credits

Under supervision of biology faculty mentors, students will select a research project, write a literature review and research proposal, conduct preliminary experiments, and write a research report. Research methods and experimental design will be emphasized, including the location

and study of articles from the professional literature. The undergraduate research projects will help students develop valuable research skills, and it will provide students with an opportunity to apply scientific knowledge in the context of “real world” problems. Participation will also open up opportunities for students to take part in analyzing data and conducting field research. One 2-hour lecture period, and 4 hours of laboratory work per week. Students must also schedule time for consultation with the supervising faculty member. Prerequisites: BIO 121, 122, and permission of the instructor.

Business

BUS 110 Business Ethics (3-0) 3 credits

This course is a study of the moral issues which arise in the context of the business world. Students in this course will learn the philosophical foundations of ethical decision making. They will explore corporate social responsibility both locally and globally, conflicts of interest, environmental concerns, discrimination and the ethical treatment of employees in the workplace.

BUS 113 College Keyboarding I (4-0) 3 credits

This course integrates the microcomputer; the leading-edge technology, Windows®; and primary word processing application software to develop keyboarding skills. Students learn the alphabetic, numeric and symbol characters, and the keypad by the “touch” method. Also included is formatting and editing of simple business/personal correspondence, reports, term papers, and tables. The desired speed at the end of the course for the Administrative Professional major is 30 words per minute and 20 words per minute for all other majors.

BUS 114 College Keyboarding II (4-0) 3 credits

This course integrates the microcomputer, the leading-edge technology Windows®; and primary application software to refine keyboarding skills. Emphasis is also placed on formatting and the development of speed and accuracy in preparing advanced business correspondences, reports, tabulations, and other business documents. The desired speed at the end of the semester is 45 words per minute. Note: Students are required to have basic keyboarding knowledge and the ability to format basic documents, if not students must take BUS 113 College Keyboarding I.

BUS 115 Computer Law and Policy (3) 3 credits

This course provides fundamental information needed to have a basic understanding of issues in cyberlaw such as intellectual property, ethics, security, privacy, content control, computer crime, and e-commerce, among other topics.

BUS 116 Word for Business Applications (3-0) 2 credits

Students will learn the theories and effective and efficient applications of documents for business or home use. Students will learn to edit, format, and store documents. This course also introduces additional word processing functions including mail merge, sorting, document management, charts, and macros. Note: Students are required to have basic keyboarding knowledge and the ability to format simple documents, if not students should take BUS 113 College Keyboarding I.

BUS 120 Introduction to Business (3-0) 3 credits

Introduction to such business factors as ownership, careers, economic systems, competition, organizational structures, management, production, marketing, finance, business ethics, and current topics. This course is also designed as a first year seminar for students entering the AS and AAS Business Administration programs. This course prepares students to take higher level business courses, or serve as a general survey course for non-business students.

BUS 122 Video Advertising (3-0) 3 credits

This course is a workshop in planning, writing, producing, videotaping and editing video advertisements for television and the web. Students will receive experience in writing, production techniques (shooting and editing) and the evaluation of video ads. (Also listed as COM 122)

BUS 123 Business Communications (3-0) 3 credits

This class is designed for a student entering any part of the business world, where good communications skills are essential. It is a comprehensive introduction to theory and practice of basic business communication skills. Emphasis is placed on the process of communication and on typical forms of business communication, such as business reports, different types of business messages, including electronic messages, and employment communication. Prerequisite: ENG 101.

BUS 124 Organizational Behavior (3-0) 3 credits

Organizational Behavior is an introductory business course that will provide information to the student about individuals, groups, organizational structure, and function. Topics to be studied include: Interpersonal Communications, Decision Making, Human Perception, Dynamics of Groups, Human Needs and Motivation, Concept of Organization, Leadership, Moral and the Quality of Work Life with attention to ethical consideration.

BUS 126 Introduction to Sports Studies (3-0) 3 credits

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 or tourism destination. The student will study the components of management as applied to sport enterprises, as well as the historical, psychological and sociological foundations of sport. The student will understand the components of sport management, event logistics, sponsorship, hospitality, use of volunteers, and licensing agreements. The student will be exposed to various sports and sports tourism careers.

BUS 131 Personal Money Management (3-0) 3 credits

This course deals with management of personal finances over the life cycle of the individual consumer. Topics covered include establishment of personal financial objectives, budgeting, use of credit, property, liability and life insurance, major purchases such as housing, transportation and education; taxes, savings, investments, and retirement and estate planning.

BUS 142 Professional Selling (3-0) 3 credits

This course is a study of the fundamentals of professional selling as a prerequisite to success in retailing and business occupations. Emphasis is placed on acquiring effective communication

skills, self-confidence, and basic selling techniques through practical demonstration, on-site observation, and practice in retail settings. The importance of product knowledge, customer buying motivations, and the role played by the salesperson in the store's total image are examined.

BUS 146 Retail Business Management (3-0) 3 credits

This course is an introduction to contemporary retailing as a service industry and profitable operation. A study is made of each of the five major organizational functions: merchandising, personnel, finance, operations, and promotion, with emphasis placed on career opportunities in each division.

BUS 147 Small Business Management (3-0) 3 credits

A management approach to the study of contemporary small business practices. Students evaluate alternatives to be considered in forming policies regarding organizational structure, location, financial and legal requirements, merchandising and service standards, personnel considerations, methods of operation, promotional strategy, inventory control and accounting procedures. This course will serve as preparation for the establishment and operation of a small retail business.

BUS 200 Office Management (3-0) 3 credits

This course is a comprehensive overview of the administration of the modern office in the public and private sector. The application of management principles to office operations will be covered. The course provides practical information about human relations, office technology, and management process.

BUS 203 Public Relations (3-0) 3 credits

This survey course in Public Relations introduces students to the field of public relations. It will describe the responsibility and roles of the public relations professional in private and public companies. Prerequisites: ENG 101. (Also listed as COM 203)

BUS 212 MS Excel for Business Applications (3-0) 3 credits

This course offers students the opportunity to master the advanced functionality of Microsoft Excel, and to apply those skills to genuine business applications such as financial modeling, reporting, and the automation of accounting and financial tasks. Although the basic functions of Excel will be covered, areas of focus include graphs and charts, the use of advanced financial functions and analytical tools, reporting templates, linking of worksheets and workbooks, importing and manipulating data, macros (automation of tasks), auditing tools, and other features especially useful to the financial or accounting professional. Prerequisites: Placement into Math Level 1 or MAT 110. (Also listed as CSC 212)

BUS 217 Information Management (2-0) 1 credit

This is an information management course in which students learn tools for e-mailing, managing e-mails and contact lists, organizing schedules, and maintaining a calendar. Outlook and a web-based system are utilized

BUS 218 Desktop Publishing (4-0) 3 credits

This course provides hands-on training in word processing and presentation application software to learn desktop publishing techniques. Students build on their knowledge developed in BUS 116 Word for Business Applications to create professional-looking documents including flyers, brochures, and newsletters. Prerequisite: BUS 116.

BUS 219 Computerized Business Applications (4-0) 3 credits

This course provides comprehensive, hands-on training of Excel and Access. Students will also learn the integration of Microsoft Word, Excel, and Access.

BUS 220 Principles of Supervision (3-0) 3 credits

Practical application of planning, organizing meetings and committees, communicating with subordinates and supervisors, employee orientation training and appraisal, the supervisor and labor relations, problem solving, decision making, and management of time.

BUS 221 Principles of Management (3-0) 3 credits

The basic purpose of this course is to provide an understanding and appreciation of the part management plays in the successful operation of a business. The evolution of management practices is explored along with present applications in order to maintain effective coordination and control. This course is targeted towards anyone interested in learning about basic management skills; either professionals or current students. It will prepare the student for future or current management positions. The course also serves as a requirement in the AAS Business Administration program.

BUS 222 Marketing (3-0) 3 credits

This course is a comprehensive introduction to procedures and practices involved in marketing, including marketing, including marketing cooperation with all other business functions and disciplines. Students in all business-related majors will focus on how present-day marketing trends are used to meet the needs and wants of customers/consumers. Concepts covered will include product research, development and package; pricing; sales, advertising and sales promotion; distribution and transportation; wholesalers and retailers; marketing research.

BUS 224 Human Resource Management (3-0) 3 credits

A detailed study of personnel practices as they relate to the behavioral science concept of the management of human resources. Topics considered are recruitment, selection and training, motivation, job analysis, salary and wages, and performance appraisal.

BUS 227 Business Law (3-0) 3 credits

A study of legal principles applied to business transactions. Topics covered include: the origins of legal rights, ethics, court systems and procedures, constitutional authority, and contract law, agency and Torts.

BUS 229 Advertising (3-0) 3 credits

Examines advertising as an important component in managerial marketing. Emphasis is placed on objectives, media study, strategic planning, budget considerations, control, and the

measurement of advertising effectiveness. The role of advertising agencies and departments are examined.

BUS 231 Sports Marketing (3-0) 3 credits

This course is designed to provide an in-depth study of the general principles of sports marketing. Students will study services marketing theory. The student will be exposed to the relationship between sports marketing, the success of sporting events, and the economic development for a destination. The student will study the effects sports marketing has upon the creation and development of sports facilities and venues. The student will study the role and impact of sports marketing intermediaries. The course emphasis will be focused upon public relations, sponsorship development, media relations, and various promotional techniques as they apply to professional, amateur, and youth sporting events. There will be opportunities for the student to apply sports marketing theory utilizing case studies. Prerequisite: BUS 126.

BUS 235 International Business (3-0) 3 credits

This course is designed to provide an introduction to international business. The student will learn about the role and importance of international business and the importance of global linkages. Students will recognize that today's market is a global one – everyone is affected by international business. Specific topics will include: globalization. Country differences, geography, cross-border trade and investment, the global money system, and competition in a global marketplace. Business foreign language tapes will be used, covering common business phrases. A group project will be required. Prerequisites: BUS 120; ECO 100 or ECO 210.

BUS 236 Special Topics in Business (3-0) 3 credits

This course is designed to treat a selected topic associated with the marketing field. Course content and instructor vary from semester to semester. Topics may include: Customer Service, Consumer Behavior, Human Relations, Credit Management, and Visual Merchandising.

BUS 240 Dynamics of Leadership (3-0) 3 credits

This course is a management course wrapped in a voyage of self-discovery. Through the study of proven leadership theories and their practical applications, the student will: develop their own leadership style, focus their values and beliefs, develop their communication and interpersonal skills, enhance their decision making and problem solving abilities and awaken the leader within. Students will be encouraged to embrace and develop a leadership style best suited to their individual personality, attributes and temperament.

BUS 241 Project Management (3-0) 3 credits

This is an information management course in which students learn tools for e-mailing, managing e-mails and contact lists, organizing schedules, and maintaining a calendar. Outlook and a web-based system are utilized.

BUS 245 Administrative Professional Internship 3 credits

The internship is a capstone course for Administrative Professional students to gain experience in their major area of study in a professional office environment. Students will apply their classroom knowledge and skills to various tasks while strengthening and expanding this knowledge through practical, first-hand experience. Students must complete a minimum of 135

hours of intern work at the site. During the semester, the student must attend the three internship seminars. Prerequisite: A minimum of 30 credit hours completed with an overall 2.0 grade point average.

BUS 246 Administrative Procedures and Theory (3-1) 3 credits

This course provides preparation for the administrative business office. This course includes techniques and topics such as the work environment, communication skills, computer hardware and software, records management, ethics, business documents, mail handling, office machines, telework, telecommunications, time management, business presentations, travel arrangements, meetings and conferences, telephone efficiency, leadership skills, and planning your career path.

BUS 250 Business Internship Program 3 credits

The internship course allows the student to gain supervised practical experience working in a setting related to the student's area of Business interest. The course provides students with an on-the-job experience consisting of a minimum of 135 hours of supervised activity at an appropriate business firm, institution or agency. This work experience, along with the academic program, will enrich the theoretical concepts developed in the classroom and enable the student to prepare for entrance into a competitive work environment. There is an additional in-class component for students to share their experience and discuss lessons learned. Prerequisite: Completion of 30 credit hours toward a degree with a minimum grade point average of 2.0 or permission of instructor. Based upon faculty recommendation, this course may be taken twice for credit.

BUS 265 A.S. Business Administration Capstone (1) 1 credit

This course is to serve as a capstone for students only in the AS Business Administration degree program. Because of the nature of the program, students are expected to have researched what four-year college or university they plan to attend, along with a specific major within the business field. Students are to articulate this information along with what they learned here at FLCC, and how that will apply at their destination. In addition, students are to prepare documents for internship(s) at their four year school. This will ensure that the student is market ready for advanced courses. 13 credits of ACC/BUS courses, 45 program credits completed, and minimum 2.0 GPA.

Chemical Dependency Counseling

CDC 102 Concepts of Chemical Dependency I (3-0) 3 credits

This course will study the nature of chemicals of abuse and their impact on the individual and society. This will include the major classes of drugs, their impact on the brain and body, why people use and how they become addicted. Topics covered in this class, in addition to those mentioned, will include laws regarding chemical use, toxicology, drug screening and its implication, limitations and reporting. One of the four hours of tobacco education required by OASAS is included in the course material.

CDC 103 Concepts of Chemical Dependency II (3-0) 3 credits

This course addresses concepts and issues that move beyond the chemicals themselves. This includes the impact of chemical use on families and workplaces, use by adolescents and the

impact of gender, race and culture both on the use of chemicals and on treatment. Topics will include assessment tools, an introduction to the biopsychosocial evaluation and the diagnostic process including determination of level of care and the place of 12 step and other mutual aid support groups. Students will learn about brief assessment tools and how to use them. They will also learn about health and wellness regarding medical issues common to persons who abuse substances, such as HIV, AIDS, Hepatitis, STI's (Sexually Transmitted Infections) and TB (Tuberculosis). The course will include the remaining three hours of education on tobacco to complete this OASAS requirement. Prerequisite: CDC 102.

CDC 104 CDC First Year Experience (2-0) 2 credits

The First Year Experience is an experience designed to introduce students to the discipline of Chemical Dependency Counseling and to the FLCC community, while starting them on the path to a successful college experience. In the course students will learn about resources available to them for maximizing student success and become familiar with the field of chemical dependency counseling. Students will leave the course and program with a career plan that will help to guide them.

CDC 115 Issues in Ethics for Chemical Dependency Counselors (3-0) 3 credits

This course addresses ethics for chemical dependency counselors by presenting an overview of ethical thought and the basics of ethical decision making. The major focus will be professional ethics as they relate to chemical dependency counseling, and on the CASAC canon of ethics. The course will include the examination of the student's personal values and belief system as it relates to becoming an ethical and competent chemical dependency counselor. The course will also provide the OASAS requirement of two hours of Mandated Reporter training. Also addressed will be confidentiality and the HIPAA regulations. This course will include the examination of one's personal values and belief system as it relates to becoming an ethical and competent chemical dependency counselor. This course fulfills the OASAS requirement for 45 hours of education in ethics.

CDC 200 Addiction Counseling (3-0) 3 credits

This course focuses on the knowledge and skills needed to begin a career in Chemical Dependency Counseling. Students will learn the practical skills of completing a full biopsychosocial evaluation, including making a diagnosis using the DSM, and writing an evaluation summary. Topics will also include interviewing skills, treatment planning, referrals, communication, listening and feedback skills, how groups work, the impact of culture on treatment and how to assess spiritual issues. Students will be introduced to counseling theories and their relationship to treating addictions. A minimum of ten hours of role play are used in this course for learning interviewing and group skills. Prerequisites: CDC 103.

CDC 210 Field Experience Practicum I 4 credits

One hundred and fifty hours of field experience will be spent in a rehabilitation or treatment facility for alcoholics or addicts. The student will enter the facility under terms laid down by said facility. The facility will provide direct supervision and the FLCC field coordinator indirect supervision for the student. In addition to discussing internship experiences, classroom topics will include evidence-based programs and counseling techniques, treatment planning, group

skills, case presentation, and further experiential practice with evaluation and group skills. Prerequisite: CDC 103. Co-requisite: CDC 200.

CDC 211 Field Experience Practicum II *4 credits*

Students are required to take two Chemical Dependency Counseling Practicum courses, with developmentally appropriate scaffolded outcomes. In this format students in their second experience will be able to serve as role models for students in their first experience. CDC 211 will serve as the Capstone course for the CDC degree. One hundred and fifty hours of field experience will be spent in a rehabilitation or treatment facility for alcoholics or addicts. The student will enter the facility under terms laid down by said facility. The facility will provide direct supervision and the FLCC field coordinator indirect supervision for the student. In addition to discussing internship experiences, classroom topics will include evidence-based programs and counseling techniques, treatment planning, group skills, case presentation, and further experiential practice with evaluation and group skills. Prerequisite: CDC 210.

Chemistry

CHM 092 Introduction to Chemistry (3-2) *4 credits*

An introductory chemistry course. Designed for students who have not previously taken a chemistry course in high school or college. This course meets the admission requirement for the AA Nursing program and also prepares students for CHM 121 General Chemistry. Topics include: the metric system, dimensional analysis, atomic and molecular structure, nomenclature, bonding, reactions, chemical calculations, periodicity, solutions, equilibrium, acids, bases, and the pH concept. Topics and laboratory experiences will relate to everyday experiences. This course carries imputed (financial aid) credit. It does not fulfill FLCC's Chemistry or general elective requirements.

CHM 110 Fundamentals of Chemistry (3-2) *4 credits*

An intensive study of the fundamentals of chemical principles with an emphasis on developing the problem solving and study skills required to succeed in general chemistry (CHM 121). Topics include a review of basic math, dimensional analysis, formulas and nomenclature, chemical equations and reactions, stoichiometry, atomic and molecular structure, solution concentrations, and acids and bases. This course is designed to prepare students majoring in the sciences for the general chemistry sequence. Prior study of chemistry is not assumed. Prerequisite: Placement into Math Level 2 or higher. Co-requisite: MAT 145. Successful completion of all required remedial courses.

CHM 121 General Chemistry I (3-3) *4 credits*

The first semester of a comprehensive two-semester general chemistry course. General principles of chemistry are introduced, including atomic structure, the periodic table, chemical calculations, classification of chemical reactions, nomenclature, kinetic theory of gases, ionic and covalent bonding, liquids and intermolecular forces to provide a thorough treatment of chemical principles. The course includes both laboratory and lecture. (CHM 092 or high school chemistry is strongly recommended) Prerequisite: Placement into Math Level 2 or higher or MAT 097. This course carries SUNY General Education Natural Sciences credit.

CHM 122 General Chemistry II (3-3) 4 credits

Continuation of General Chemistry I. Topics covered include electronic structure and bonding theories, solutions, kinetics, equilibrium, acid-base chemistry, thermochemistry, thermodynamics, solids, organic and biochemistry, electrochemistry, coordination chemistry, descriptive chemistry of main-group elements, and nuclear chemistry. Prerequisites: CHM 121 with a C or higher. This course carries SUNY General Education Natural Sciences credit.

CHM 205 Organic Chemistry I - Lecture (3-0-1) 4 credits

A systematic study of the chemistry of carbon compounds emphasizing reactions, mechanisms, and synthesis with a focus on functional groups, addition reactions to alkenes and alkynes, alcohols and ethers, stereochemistry, nomenclature, acid-base chemistry, reaction kinetics and thermodynamics. Prerequisite: CHM 122 with a grade of C or better.

CHM 206 Organic Chemistry II - Lecture (3-0-1) 4 credits

A continuation of the study of the reactions, mechanisms, and synthesis of organic compounds including amines, aldehydes, ketones, amines, carboxylic acids, carbonyl-containing compounds and their derivatives as well as a brief introduction to bio-organic molecules. The basic spectroscopic methods and principles to determine the structure of organic compounds is developed. Prerequisite: CHM 205 with a grade of C or better.

CHM 211 Organic Chemistry (3-3-1) 5 credits

A systematic study of the chemistry of carbon compounds emphasizing reactions, mechanisms, and synthesis with a focus on functional groups, addition reactions to alkenes and alkynes, alcohols and ethers, stereochemistry, nomenclature, acid-base chemistry, reaction kinetics and thermodynamics. Laboratory techniques include separation, recrystallization, distillation, extraction, chromatography and simple synthetic reactions. Prerequisite: CHM 122 with a grade of C or better.

CHM 212 Organic Chemistry II (3-3-1) 5 credits

A continuation of the study of the reactions, mechanisms, and synthesis of organic compounds including amines, aldehydes, ketones, amines, carboxylic acids, carbonyl-containing compounds and their derivatives as well as a brief introduction to bio-organic molecules. The basic spectroscopic methods and principles to determine the structure of organic compounds is developed. Laboratory techniques include functional group transformations, multi-step synthesis and a research project. Prerequisite: CHM 211 with a grade of C or better.

Cinema

CIN 110 Cinema of Spain (3-0) 3 credits

CIN 110 is an integrated course including highlights of Iberian film, history, and culture across Spain. Also included are a variety of activities to stimulate critical conversations and writing skills. This course is taught IN ENGLISH. Previous experience with the Spanish language is recommended, but not required. This course carries SUNY General Education Humanities credit.

CIN 115 Latin American Cinema (3-0) 3 credits

CIN 115 is an integrated course including highlights of film, history, and culture across French-speaking countries other than France. Also included are a variety of activities to stimulate critical conversations and writing skills. This course is taught IN ENGLISH. Previous experience with the French language is recommended, but not required. This course carries SUNY General Education Humanities credit.

CIN 120 Cinema of France (3-0) 3 credits

CIN 120 is an integrated course including highlights of film, history, and culture across France. Also included are a variety of activities to stimulate critical conversations and writing skills. This course is taught IN ENGLISH. Previous experience with the French language is recommended, but not required. This course carries SUNY General Education Humanities credit.

CIN 125 Francophone Cinema (3-0) 3 credits

CIN 125 is an integrated course including highlights of film, history, and culture across French-speaking countries other than France. Also included are a variety of activities to stimulate critical conversations and writing skills. This course is taught IN ENGLISH. Previous experience with the French language is recommended, but not required. This course carries SUNY General Education Humanities credit.

CIN 260 Cinema as an Art Form I: Silent Era (3-0) 3 credits

The motion picture as an integral art form will be studied from historic and aesthetic perspectives. Emphasis will be placed on the silent era and its technological development, genres, directors, stars, and themes. Prerequisite: ENG 101. This course carries SUNY General Education The Arts credit.

CIN 261 Cinema as an Art Form II: Sound Era (3-0) 3 credits

The motion picture as an integral art form will be studied from historic and aesthetic perspectives. Emphasis will be placed on the sound era and its technological development, genres, directors, stars, and themes. Prerequisite: ENG 101. This course carries SUNY General Education The Arts credit.

CIN 263 Minority Groups in Film (3-0) 3 credits

Minority Groups in Film fosters awareness of cultures deemed "other," according to ethnicity, sexuality, or identity by the mainstream society of the United States. Utilization of films from, by, and/or about these groups, as well as documentaries, will provide an artistic and historical representation of these cultures. This course also analyzes films as they relate to social issues dealing with minorities. Prerequisite: ENG 101. This course carries SUNY General Education The Arts credit.

CIN 264 Global Cinema (3-0) 3 credits

Global Cinema focuses on fostering global awareness and knowledge of cultures, both Western and non-Western, by utilizing films, from their countries of origin, to provide an artistic representation through cinema into these cultures. Many of the movies will be subtitled in English. Films may be narrative, experimental, propaganda, and/or documentary and will be explored in an international, historical, and/or contemporary context. Prerequisite: ENG 101. This course carries SUNY General Education The Arts credit.

Criminal Justice

CJC 100 Introduction to Criminal Justice (3-0) 3 credits

This course examines the functions and interrelationships of the component parts of the criminal justice system - the police, courts, and corrections. Relevant constitutional law and Supreme Court decisions are reviewed, and contemporary problems and issues in criminal justice are highlighted.

CJC 105 Criminal Law (3-0) 3 credits

A study of the New York State Penal Law. Sections of the Penal Law will be discussed and analyzed. Specific attention will be given to offenses that are considered to be both serious and frequently committed. Legal definitions, interpretations and classifications of crimes will be examined. General legal principles, recent court decisions and case law will also be considered.

CJC 110 Criminal Procedure Law (3-0) 3 credits

A study of the New York State Criminal Procedure Law. Specific topics include court procedures, laws of arrest and search warrants. Special emphasis will be placed on Constitutional limitations, criminal proceedings, and legal terminology.

CJC 117 Issues in Constitutional Law (3-0) 3 credits

A study of Constitutional Law, including constitutional aspects of criminal law and procedure. Special emphasis will be placed on civil liberties, and individual rights guaranteed and protected by the Constitution. Jurisprudence, legal principles, government restraint, and Constitutional limitations will also be examined. Specific attention will be given to Supreme Court cases in order to emphasize the constitutional aspects of criminal justice.

CJC 120 Introductions to Corrections (3-0) 3 credits

Development of corrections; the correctional client in local, state and federal correctional facilities and court decisions implementing due process and civil rights for correctional clients. Also, addressed are the alternatives to incarceration: probation and community corrections.

CJC 125 Juvenile Justice (3-0) 3 credits

The course examines theories of causation relating to juvenile delinquency. Topics include the role of police, courts, corrections and community programs in delinquency prevention, control and treatment. Specific attention will be given to juvenile violent behavior and constitutional rights of the juvenile.

CJC 130 Introduction to Probation (3-0) 3 credits

Development and historical significance of probation, organization and administration; probation services, preparation of reports, sources of information and family court services.

CJC 200 Cooperative Education (6-0) 6 credits

The Cooperative Education course may be taken after the student has completed the first and second semester requirements of the Criminal Justice program. The student will be assigned to work in a criminal justice agency or department in the Finger Lakes area. The course is designed supplement the academic experience with first-hand, 'real-world' experience in a workplace setting. Prerequisite: Grade point average of 2.5 or higher.

CJC 205 Philosophy of Criminal Investigation (3-0) 3 credits

This is an examination of the methods, skills and basic procedures involved in the investigation of a criminal matter. Topics include interrogation and interviewing, crime scene processing, search and seizure, report writing and crime scene sketches. Special emphasis will be placed on serious crimes, criminal profiling and victimology.

CJC 210 Family Court (3-0) 3 credits

A course of study in the jurisdiction, responsibility, and procedures of the Family Court. Emphasis will be placed on: jurisdiction, Persons In Need of Supervision (PINS), juvenile delinquency, family offenses, neglect, abuse, and paternity.

CJC 212 Introduction to Criminalistics (3-0) 3 credits

Criminalistics examines the application of the physical and biological sciences to the investigation of possible crime and criminal activity. Modern technology will be examined as it applies to crime scene management, the fingerprint science, photography and trace evidence. Emphasis is placed on the relationship between science and law enforcement, with consideration to the legal implication involved in crime scene investigation. Ethical issues surrounding criminalistics will also be addressed and explored in this course.

CJC 215 Current Practices in Corrections (3-0) 3 credits

Review of conflicting correctional ideologies, alternatives to incarceration, climate and change in corrections, and community corrections. Special emphasis will be placed on the role of research.

CJC 220 Contemporary Trends in Probation (3-0) 3 credits

Recent trends in probation, community oriented services, group methods, and State and Federal research projects, including an in-depth look at treatment modalities for juvenile and adult offenders in the probation rehabilitation process.

CJC 225 Police Community Relations (3-0) 3 credits

This course explores the role of the police in, and their relations with, the communities they serve. Emphasis will be placed on community policing, professionalism, and accountability of the individual officer and police departments and institutions promoting a meaningful police image.

CJC 227 Introduction to Terrorism (3-0) 3 credits

This course will examine the concept of terrorism with a focus on the contemporary definitions of terrorism. It will explore the historical perspective to provide context for the issues being addressed today. There will be a dichotomy between domestic terror and international terror

groups. The infiltration of foreign groups into the United States will be addressed. This course will also consider the legal implications associated with terrorist activities against the United States.

Communications

COM 100 Human Communication (3-0) 3 credits

The purpose of this course is to develop fundamental skills necessary to achieve effective communication across a variety of contexts. The primary objectives of this course are to identify fundamental communication skills and identify the variety of communication contexts in which those skills will be utilized. Furthermore students are expected write and deliver speeches and also effectively evaluate the speeches of their peers. This course carries SUNY General Education Basic Communication: Oral credit.

COM 110 Public Speaking (3-0) 3 credits

A primary objective of the course is to develop skill in oral communication by helping the student to understand the principles of good public speaking: organization, audience analysis, language, and presentation techniques. Emphasis will be placed on the development of self-confidence. This course carries SUNY General Education Basic Communication: Oral credit.

COM 111 Voice and Diction (3-0) 3 credits

A one semester course in the improvement of the speaking voice through vocal techniques and the interpretation of literature. This course is open to all students.

COM 115 Interpersonal Communication (3-0) 3 credits

The course focuses on the development of the interpersonal communication skills necessary for building and maintaining positive relationships. Topics of study include an orientation to interpersonal communication, verbal and non-verbal communication in relationships, managing conflict, as well as cultural and gender considerations. Students will study various theories and practice skill development in order to become more competent communicators. This course carries SUNY General Education Basic Communication: Oral credit.

COM 122 Video Advertising (3-0) 3 credits

This course is a workshop in planning, writing, producing, videotaping and editing video advertisements for television and the web. Students will receive experience in writing, production techniques (shooting and editing) and the evaluation of video ads. (Also listed as BUS 122)

COM 123 Video Production I (4-0) 4 credits

This course introduces students to the basic techniques of video production. Students will be given hands-on experience in camera operation, lighting, sound, computer graphics, switching, directing, and video tape editing. Experience with the local Public Access Television Channel (FLTV) is included.

COM 125 Healthcare Communication (3-0) 3 credits

Communication is at the center of providing patient-centered care. Health professionals need to

express empathy as they communicate complex and difficult information through a variety of communication modalities. The primary objective of this course is to identify communication skills necessary to be able to communicate effectively within a variety of healthcare contexts. Students will practice research, analysis, and writing in genres used in the field as well as communication episodes that influence health and wellness outcomes. This course is restricted to Nursing Majors only. Prerequisite: ENG 101 (also listed as ENG 125) This course carries SUNY General Education Basic Communication: Oral and Written credit.

COM 200 Audio for Film and Video (3-1) 3 credits

This course is an exploration of the principles of digital audio in today's recording and multi-media industries. Topics discussed include: digital audio fundamentals, synchronization, recording, editing, and mixing audio for the film, video, and video gaming industries. Students will apply these principles via creating projects using Avid's Pro Tools software. (Also listed as DIG 200)

COM 202 Introduction to Mass Communication (3-0) 3 credits

This course is designed to orient students to the field of Mass Communication and its impact and influence on their lives. Included is an overview of the field and discussion of the traditional mass media industries (newspapers, magazines, radio, television, movies and music) as well as new and emerging media. Regulations, responsibilities, convergence and the cultural impact of traditional and new media are discussed and evaluated.

COM 203 Public Relations (3-0) 3 credits

This survey course in Public Relations introduces students to the field of public relations. It will describe the responsibility and roles of the public relations professional in private and public companies. Prerequisite: ENG 101 Prerequisites: ENG 101. (Also listed as BUS 203)

COM 210 Communications Practicum (2-0) 2 credits

Work experiences are arranged on-campus and with appropriate off-campus agencies to provide students with practical experience in advertising, public relations, radio, journalism, video production and new media. Prerequisites: Permission of the Instructor and a minimum overall grade-point average of 2.0

COM 215 Script Writing (3-0) 3 credits

This course is designed to introduce students to the fundamentals of developing and writing original scripts for film, television and multimedia. The course emphasizes proper script formats, theme, story, plot, dialogue, character arc, and the process of developing and writing a script. Prerequisite: ENG 102.

COM 220 Digital Video Editing (3-0) 3 credits

This course is designed to enhance students' video editing skills through the hands-on use of nonlinear video editing software. Students will learn the fundamental and advanced capabilities of these sophisticated digital systems, which are widely used in professional video production. Prerequisite: COM 123 or equivalent experience.

COM 223 Media Writing (3-0) 3 credits

This is an introductory course into the skills of the practicing journalist. Emphasis will be on the study of newsgathering and news writing. Students will employ these skills in the production of material suitable for publication in print and electronic media. Prerequisite: ENG 101. (Also listed as ENG 223)

Conservation

CON 100 First Year Experience in Conservation (3-0) 3 credits

This course is designed to provide a broad overview of the field of environmental conservation. Students will explore career options and develop an educational plan. Academic skills including learning strategies, writing, and foundational critical thinking skills are practiced throughout the semester. Topics include a history of the conservation movement in the U.S., ecological succession, and current local issues in the discipline.

CON 102 Introduction to Fish and Wildlife (3-0) 3 credits

The purpose of this course is to provide the student with an introduction to mammalian and freshwater fisheries biology with emphasis on the identification and natural history of species. Students practice identification skills and information management. This course emphasizes species found in New York.

CON 103 Environmental Science (3-2) 4 credits

This course investigates the interactions and relationships between humans and the Earth. It provides the scientific foundation for analyzing today's pressing environment issues and solutions for a sustainable future. Students will gain an understanding and appreciation of the impact of humans on other living organisms, water, air, soil, fossil fuels, and mineral resources. In analyzing potential solutions to these environmental issues, students will evaluate the impact of their own choices on the Earth's resources as well as the relative role of governments in setting sustainable policies. In the laboratory component of the course, students will learn scientific methodology, sampling procedures and methods used to test environmental quality. A portion of the lab will include outdoor experiences. (Also listed as BIO 103)

CON 113 Wildlife Field Techniques (3-0) 3 credits

This course focuses on field techniques employed by wildlife professionals. Topics include proper animal handling, various capture techniques, measuring and tagging, telemetry, camera traps, sampling protocols and basic research design. Mammal and bird techniques will be emphasized with some reptile and amphibian techniques covered as appropriate.

CON 116 Fisheries Techniques (3-0) 3 credits

This hands-on course provides students with field experiences utilizing various types of fisheries equipment. Emphasis is placed on sampling techniques for both fish and aquatic habitats. Topics include small boat operation, fish identification, fish capture and handling techniques, data collection, tagging and marking, aging, electrofishing, netting, radio telemetry, hydro acoustics, habitat assessment, and equipment maintenance.

CON 118 Introduction to Natural Resource Law (3-0) 3 credits

This course introduces students to laws for the protection and conservation of fish, wildlife and natural resources. The focus of the course is New York State and Federal law regulating the conservation of fish, wildlife and forest resources. Particular areas of study include the New York State Fish and Wildlife Law and Federal Fish and Wildlife Laws (e.g.: Lacey Act, Endangered Species Act, Migratory Bird Act). Students will study the evolution of the current body of New York State and Federal law relating to management of fish, wildlife and forest resources from a historical perspective. Students will also study legislative and administrative processes employed in the formation of Fish and Wildlife Laws and the functions and duties of the New York State and federal agencies charged with enforcing these laws.

CON 122 Introduction to Applied Field Techniques (2-2) 3 credits

Introduction to Applied Field Techniques is designed to train students in the use of standard sampling methods and equipment currently used to measure and or assess a variety of terrestrial and aquatic ecosystems. Students will collect and analyze field data using standard protocols and present their results in a variety of ways.

CON 130 Introduction to Geographic Information Systems (2-2) 3 credits

An introductory level geospatial technology course designed to introduce students to the concepts and theories of geographic information systems (GIS) and the practice of geospatial analysis. This course consists of a lecture component and a laboratory component. Students will learn to apply GIS concepts through hands-on exercises designed to explore and analyze spatial data. Students will use leading geospatial software used by numerous professions including natural resources conservation and sustainability, business management, criminal justice, and community planning. (Also listed as GIS 130.)

CON 190 Conservation Field Camp (3-0) 1 credit

Field Camp is designed to provide one week of conservation field experiences. Emphasis will be on fish, wildlife, and forest management techniques; conservation field studies and investigations; field natural history; outdoor recreation skills; and rustic conservation construction.

CON 201 Field Experiences in Conservation II (2-0) 2 credits

This course is comprised of limited classroom sessions and 75 hours of individual field experiences. Topics in the classroom are intended to build from the material learned in CON 200 and include: resume writing, job searching and identification of field experiences appropriate to the student's career goals. Field experiences will be arranged with appropriate agencies, which may include the NYS Department of Environmental Conservation, County Conservation Services, BSA Camps, National Park Service, Nature Conservancy, water treatment plants and nature centers. Field experiences will provide students the opportunity to assume the responsibilities for the jobs (Fish and Wildlife Technician, Nature Interpreter, Camp Ranger, etc.), they will be performing after graduation. The type of experience varies with student career interest and previous experience. (Satisfactory or Unsatisfactory grade.) Prerequisite: CON 200.

CON 202 Principles of Terrestrial and Aquatic Ecology (3-0) 3 credits

This course is designed for second year students in Horticulture and Conservation degree

programs. An introduction to the scientific study of the interactions between organisms and their environment. Students examine the influence of biotic and abiotic variables on species evolution, population dynamics, and community composition. Students are required to conduct an independent field study to integrate and reinforce ecological concepts learned throughout the degree program. Prerequisites: BIO 121 or BIO 125. (Also listed as BIO 221)

CON 202L Principles of Terrestrial and Aquatic Ecology Lab (0-2) 1 credit

In this hands-on laboratory-based course, students will have the opportunity to conduct studies and perform experiments that enrich their knowledge and understanding of the scientific concepts learned in the lecture portion of CON 202/BIO 221 Principles of Terrestrial/Aquatic Ecology. Laboratory exercises will include a combination of field trips and observational and experimental studies as well as in-classes exercises aimed at preparing students for upper level coursework in the field of ecology (e.g. reading scientific papers, presenting data, interpreting graphs). Prerequisite: ENG 101, BIO 121 and BIO 122, or BIO 125. Co-requisite: CON 202. (Also listed as BIO 221L)

CON 203 Seminar in Environmental Conservation (4-0) 4 credits

This course presents topics in the field of environmental conservation. Current topics include: Herpetology, Birds, Wildflowers, Entomology, Winter Botany, Trees, Galls and Environmental Conservation Research. A comprehensive field identification test is required. A field component including a minimum of 40 hours of experiential learning, divided between the FLCC campus, Muller Field Station, and East Hill Campus is also required.

CON 214 Fisheries Management (3-0) 3 credits

This course is designed for the second year Environmental Conservation student. Fisheries management stresses the relationship between humans, fish, and their environments. Students are introduced to the principles of fishery management including history, theory, and management strategies. The importance of habitat management, and population dynamics and their interactions is explored.

CON 215 Unique Ecological Communities (3-0) 3 credits

The purpose of this course shall be to provide students with field travel experiences relative to their course work in Natural Resources Conservation. This expedition course, to different areas of the world, will emphasize identification and natural history of birds, mammals, fish, reptiles, plants and a variety of ecological communities. Students will be provided with opportunities to observe employment options in Conservation, and gain experience in camping and group travel. Examples of travel experience include trips to: Florida Everglades and Keys, Wilderness Alaska, Costa Rica, Belize and various National Parks in the United States and Canada.

CON 216 Wildlife Management (3-0) 3 credits

This course will provide intensive classroom and some field experience in wildlife management theory including: population dynamics, mortality, natality and the relationship between wildlife and their habitats. Practical techniques used for aging, sexing, marking, and surveying will be presented. Students develop a wildlife management plan for a local species. Game and non-game species are included. Prerequisite: CON 102.

CON 218 Fish Culture Techniques (3-0) 3 credits

This course is designed to provide students an in depth exposure to fish culture practices and techniques. Students will review historic and current status of fish culture in the U.S and world. Culture methods, data collection, egg take, incubation, and fry hatching of walleye (*Sander vitreus*) cultured at the FLCC-Muller Field Station- Education and Research Center is emphasized. Trips to other culture facilities add to the student experience. Essential factors involving water quality, fish health, nutrition, species requirements, system design, equipment, and advanced re-circulation aquaculture systems are studied. This is a hands-on course.

CON 219 Introduction to Aquaculture (3-0) 3 credits

This course is designed as an introduction to aquaculture practices and techniques. Students are exposed to both the historic and current status of aquaculture. Emphasis is placed on culture methods, fish handling, and data collection techniques. Walleye cultured at the FLCC-Muller Field Station, will be collected and stocked. Trips to other culture facilities will expose students to different culturing techniques. Factors of water quality, fish health and nutrition, system designs, and advances in Recirculation Aquaculture Systems (RAS) will be investigated.

CON 220 Glacial Geology of the Finger Lakes (3-0) 3 credits

This course is an introduction to glaciation emphasizing historic events within the Finger Lakes region. The mechanics of glacial motion, erosion, and deposition will be studied and then used to interpret our modern landscape. Students will be introduced to the technique of air photo interpretation. Our modern biodiversity and distributional patterns of organisms will be related to postglacial events. Scenic values associated with glacial landscapes will be a focal point of the class field trips. (Also listed as SCI 220)

CON 221 Conservation Topics I (1-0) 1 credit

This course is designed to provide students with specialization in an area related to their occupational or educational interest and to provide students the opportunity to become more familiar with conservation practices. Topics typically involve a field component and may be held as a residential course at the Muller Field Station or the East Hill campus.

CON 222 Conservation Topics II (2-0) 2 credits

This course is designed to provide students with specialization in an area related to their occupational or educational interest and to provide students the opportunity to become more familiar with conservation practices. Topics typically involve a field component and may be held as a residential course at the Muller Field Station or the East Hill campus.

CON 223 Conservation Topics III (3-0) 3 credits

This course is designed to provide students with specialization in an area related to their occupational or educational interest and to provide students the opportunity to become more familiar with conservation practices. Topics typically involve a field component and may be held as a residential course at the Muller Field Station or the East Hill campus.

CON 224 Dendrology and Field Botany (2-0-2) 3 credits

Field study, identification and natural history of plant communities with an emphasis on important forest tree species. (Also listed as BIO 224)

CON 226 Fisheries Field Assessment (3-0) 3 credits

This course is an intensive one-week session that gives the student in-depth experiences in fish inventory methods and general vessel operation and maintenance. The majority of class time will be in the field, allowing the student to gain hands-on training in fisheries management techniques. The class is divided into five daily modules. The order in which the modules are taught are weather dependent; therefore, the starting and ending times will vary. Students should plan on being available from 6 a.m. to midnight each day. (Satisfactory or Unsatisfactory grade.)

CON 227 Applications of Global Positioning Systems (GPS) (.5-1) 1 credit

This class will provide students with an introduction to basic theoretical concepts and practical hands-on use of global positioning systems (GPS) with strong emphasis in relation to natural resources management and data collection. (Also listed as GIS 227)

CON 229 Stream Ecology and Monitoring (3-0) 3 credits

This course provides students with an introduction to hydrology, stream ecology and sampling design. Students will intensively study aquatic macro-invertebrate identification. The students will learn through field and laboratory experiences with data collected, analysis, and production of a final professional report. Prerequisite: MAT 121, CSC 134, CSC 135.

CON 233 Laws for the Use and Protection of Water and Land Resources (3-0) 3 credits

This course focuses on Local, New York State and Federal Laws for the protection of water resources and land use. Students will study New York State Environmental Conservation Law as it relates to the management of water resources, protection of freshwater and tidal wetlands, and regulation of mining and energy exploration. Students will study the New York State Environmental Quality Review Act (SEQRA) process and the Federal Clean Water Act, landowner rights and liabilities. Legal processes for the introduction of new laws and the enforcement of current laws will be discussed in depth. Students will be introduced to potential careers through the study of local, state and federal regulatory agencies charged with protection and wise use of water and land resources. Instruction methods include lecture, class discussion and guest speakers.

CON 234 Laws for the Management of Air Resources, Solid Waste and Hazardous Substances (3-0) 3 credits

This course focuses on New York State and Federal laws for the protection of air resources, the management of solid waste and regulation of substances harmful to the environment. Students will study the New York State Environmental Conservation Law as it relates to protection of air resources, the management, transportation and disposal of solid and hazardous waste and the use of substances potentially hazardous to the environment such as pesticides. Students will also study related federal statutes including the Clean Air Act, NEPA and CERCLA. Students will be introduced to potential careers through the study of relevant local, state and federal regulatory agencies.

CON 235 Wetland Science and Practice (3-0) 3 credits

A survey and in-depth investigation of wetland terms and types, characteristic features and processes, and delineation, management and restoration practices. The course examines wetland hydrology and biogeochemical processes as well biotic adaptations to wetland environments. An

emphasis is placed on achieving competency in recognizing the hydrophytic vegetation and hydric soil indicators commonly encountered in the non-tidal, freshwater wetlands of northeastern United States. The culmination of the course is an experiential project that applies this field-based knowledge with GIS resources to delineate a wetland on a local site according to current government standards.

CON 236 Wetland Mammals (3-0) 3 credits

This residential course will be held at the Muller Field Station over two weekends plus two additional class meetings. The focus of the course will be the natural history, research and management of four wetland mammals: beaver, muskrat, mink and river otter. Students will design and conduct a field study. Students will be required to stay at the Muller Field Station for the two weekends as some field work is done in the late evenings and early mornings, rain or shine. Students will be required to canoe. Prerequisite: CON 102.

CON 237 Black Bear Management I (1-0) 1 credit

Course covers the identification, natural history and management of black bears in North America with special emphasis on New York State. Students who enroll in this course are also expected to take CON 238 Black Bear Management II the following semester. Prerequisite: CON 102.

CON 238 Black Bear Management II (2-0) 2 credits

Course covers the research, natural history and management of black bears in North America with special emphasis on New York State. Students may have the opportunity to participate in hands on black bear management activities. Students who enroll in this course are expected to be able to devote several full weekdays to conduct field work over the course of the semester. An additional original project is undertaken by the class. Prerequisite: CON 237 or permission of instructor.

CON 239 Introduction to Ecological Management Practices (2-2) 3 credits

This hands-on, techniques course provides students the opportunity to gain first-hand experience conducting standard practices in managing habitats. This includes but is not limited to erosion control, vegetation management, invasive species control, and ecological restoration techniques. This course will emphasize current practices in the design, implementation, monitoring, and maintenance of a variety of natural and managed environments.

CON 240 Wildlife Crime Scene Investigation & Forensics (3-0) 3 credits

This course introduces the student to the study of criminal investigative techniques and the analysis of evidence with an emphasis on crimes against wildlife and the environment. The focus throughout the course will be the collection, protection and preservation of evidence as it relates to the investigative process. Analysis of actual closed criminal cases and simulations with mock crime scenes will allow students to put into practice classroom discussions and readings.

CON 241 Introduction to Geographic Information Systems (2-2) 3 credits

An introductory level geospatial technology course designed to introduce students to the concepts and theories of geographic information systems (GIS) and the practice of geospatial analysis. This course consists of a lecture component and a laboratory component. Students will

learn to apply GIS concepts through hands-on exercises designed to explore and analyze spatial data. Students will use leading geospatial software and Global Positioning System (GPS) units used by numerous professions including natural resources conservation and sustainability, business management, criminal justice, and community planning. Also listed as GIS 241

CON 242 Field Study of Birds (3-0) 3 credits

This course provides students the opportunity to identify and study birds in the field. Emphasis is placed on birds of New York State. Topics include identifying birds by sight and sound, capture and handling techniques, banding, field study methods such as breeding bird atlas, waterfowl counts, nestbox surveys and hawk counts.

CON 243 Introduction to Sustainable Forest Management (3-0) 3 credits

Introduction to Sustainable Forest Management is a course that provides an introduction to past forestry practices as well as current trends in silviculture and sustainable forestry. The course explores the multitude of ecological and societal values that forests provide and are managed for. This course also emphasizes the importance of the myriad of natural factors affecting forest ecosystem health including soils, climate, topography, ecological succession, as well as both abiotic and biotic disturbances. The effect of past management on current local forest condition will also be examined. (Also listed as FOR 243)

CON 244 Introduction to Forest Measurements (2-2) 3 credits

Introduction to Forest Measurements is a course designed to train students in the use of forest measuring equipment and the implementation of standard forest measuring procedures. Some of the topics covered include: basic tree identification, forest resource sampling designs, individual and stand level density and volume estimation techniques, as well as growth and yield models. The course is strongly based on field activities. (Also listed as FOR 244)

CON 245 Environmental Conservation Capstone (1-0) 1 credit

This course is a culminating experience for the AAS Natural Resources Conservation, AAS Natural Resources Conservation - Law Enforcement, and the AAS Fish and Wildlife Technology Programs. Students will build upon previous work and practice career skills through job searches, resume and cover letter creation, application submission and mock interviews. Students will reflect on their growth as a learner and as an aspiring professional. This will facilitate an awareness of the skills still needing further development. Successful completion of at least 30 credit hours with the degree program.

CON 246 Limnology (3-2) 3 credits

An introduction to the scientific study of inland waters, limnology concerns itself with all the factors that affect living populations within those waters. Through lecture and field experiences, the student will become familiar with physical and chemical processes in water, especially those that have a direct effect on biological organisms. Standard methods and highly technical instrumentation will be used on board the college's educational vessel. A survey of life forms and identification skills will be emphasized as well as aquatic community structure and interactions. (Also listed as BIO 246)

CON 255 Wildland Fire Suppression (S-130/S-190) (2-0) 2 credits

This course provides the training necessary for the Federal Interagency “RED” Card for wildland firefighter. Topics covered include: ignition, behavior, and spread of wildfires; the role of topography and fuels in wildfires; prescribed fires as a management tool; use of fire suppression equipment; methods of fire prevention and suppression; State and Federal wildland fire control agencies. Graded on a satisfactory/unsatisfactory basis. (Also listed as WFS 130)

CON 256 Fire Ecology (3-0) 3 credits

This course is designed to give students an appreciation and understanding of the ecological role of fire in a variety of North American ecosystems. Advantageous adaptations of species inhabiting fire prone ecosystems will be discussed. The effects of fire on plants and animals will be discussed within the context of ecological time scales. The effect of past state and federal policies concerning wild fire will be examined using various case studies. Students will also be introduced to the use of prescribed burning as a habitat restoration technique. (Also listed as WFS 256)

CON 260 Principles & Techniques of Nature Interpretation (3-0) 3 credits

This course presents an in-depth investigation and practice of the fundamental principles and concepts of nature interpretation. Historical development, current trends, methods and field techniques in nature study, outdoor education, interpretive programming and facilities will be examined.

Computer Science

CSC 100 Computing in the Information Age (3-0) 3 credits

This course will prepare the student to use computers and technology in attaining solutions to issues they face in the information society of today. Students are guided through the latest developments in computer concepts, technology, and emerging issues. The course content includes presentation and hands-on practice activities that support the concepts presented. Internet applications (on the WWW) are also practiced and students use a software suite which includes word processing, spreadsheet, database, and presentation software to demonstrate skills. (Will not carry CSC credit for A.A.S. Information Technology, A.S. Information Systems, or A.S. Computer Science degrees).

CSC 103 Computing Sciences Portal (3-0) 3 credits

This course is designed to establish a core knowledge base for all Computing Sciences students. Foundational computing science topics are covered and include word processing, spreadsheet management, web design, operating system file management, number systems, algorithm development, and career planning and advising. Students are also introduced to the concept of ethics in the computer science industry. Registration for this course is restricted to computing sciences majors (CS, IT, IS, Game Programming).

CSC 105 Core Word, Core Excel, PowerPoint (3-0) 3 credits

This course is designed to teach the student core skills in MS Word, MS Excel, and MS PowerPoint, which are MS Office Applications. The course will include topics appropriate to

prepare the student to take the MOS (Microsoft Specialist) certification test upon completion. This course is offered on-line only. Familiarity with Windows including Win file management is highly recommended before taking this course.

CSC 115 CS1: Introduction to Programming and Computational Thinking (3-1) 3 credits

CS1: Introduction to Programming and Computational Thinking serves as a first course for all computer-related majors. This course is for beginning programmers, and is the first course in a sequence of three programming courses. The course emphasizes the development of languages and software, problem-solving, and programming in a structured, object-oriented language. The Java programming language is used throughout the course. Prerequisite: Placement into Math Level 1 or higher.

CSC 121 Technology in Education (3-0) 3 credits

Technology in Education is a survey of educational technologies that will prepare educators for a career in teaching. The course emphasizes the philosophy of technology as it relates to teaching, collaboration, accessibility responsibilities, open educational resources, emerging trends, online learning, professional development, and assessment.

CSC 122 Introduction to Web Page Development (3-0) 3 credits

This course is an introduction to the design and development of basic Web pages for non-computing sciences majors. Students will learn how to design and create Web pages that are in compliance with currently accepted standards. Students will learn how to use markup and formatting languages to create and customize Web pages. Sound Web design techniques will be examined and implemented as Web pages are developed. Web authoring tools will be introduced for the creation of Web pages, the manipulation of images and the creation of basic multimedia elements. Simple text editors, Web page converters and Web page editors will be employed to demonstrate their advantages and disadvantages in developing Web pages. Multiple browsers will be examined to demonstrate the differences in Web pages as they are rendered. Students will also learn how to evaluate and select services for publishing Web sites.

CSC 134 Core Word (1-0) 1 credit

This course is designed to teach the student Word, a Microsoft Office application software product. The course will include topics appropriate to prepare the student to take the MOS (Microsoft Office Specialist) certification test upon completion. Topics covered include file management, creating and formatting documents, styles and templates, tables, desktop publishing features, web publishing features, mail merge, and collaboration. This course is considered an introductory course; however, familiarity with Windows including Win file management is highly recommended before taking this course.

CSC 135 Core Excel (1-0) 1 credit

This course is designed to teach the student Excel, a Microsoft Office application software product. The course will include topics appropriate to prepare the student to take the MOS (Microsoft Office Specialist) certification test upon completion. Topics covered include creation of worksheets, workbooks, graphing, formula creation and collaboration. This course is considered an introductory course; however, familiarity with Windows including Win file management is highly recommended before taking this course.

CSC 136 PowerPoint (1-0) 1 credit

This course is designed to teach the student PowerPoint, a Microsoft Office application software product. The course will include topics appropriate to prepare the student to take the MOS (Microsoft Office Specialist) certification test upon completion. Topics covered in this course include the creation of presentations, presentation media, planning a presentation, audience needs analysis, application integration, and best practices. This course is considered an introductory course; however, familiarity with Windows including Win file management is highly recommended before taking this course.

CSC 139 MS Access (1-0) 1 credit

This course provides an overview of the fundamentals of the Microsoft Office application Access. A database management system (DBMS) such as Access provides the user with the software tools he/she needs to organize that data in a flexible manner. Access includes facilities to add, modify or delete data from the database, ask questions (or queries) about the data stored in the database and produce forms and reports summarizing selected contents. Microsoft Access provides users with one of the simplest and most flexible desktop DBMS solutions on the market today.

CSC 141 Introduction to the Game Industry (3-0) 3 credits

Introduction to Game Industry emphasizes the current state of the industry with a focus on the process of game development. Students will explore Agile production techniques and emulate the division of roles within a game studio (e.g. producer, artist, engineer, and designer) while collaborating on a long term project to create a game. This course is designed for the AS Game Programming and Design student.

CSC 142 Fundamentals of Information Systems (3-0) 3 credits

This course examines the impact of information systems and technology on businesses and organizations. Students will engage in real world case studies to learn how people, businesses, and technology work together to create information systems as business solutions. IT infrastructure and technology will be examined as a critical part of the solution. Students will be introduced to existing categories of information systems, and to the process for development of alternative custom solutions. The high level perspective offered by this course will help students understand how their role contributes to the overall success of an organization.

CSC 153 Introduction to Cloud Computing (3-0) 3 credits

This course provides students an overall introduction to cloud computing concepts. The course includes Amazon Web Services (AWS) Academy Cloud Foundations, which is a course developed and maintained by Amazon. It provides a detailed overview of cloud concepts, AWS core services, security, architecture, pricing, and support. Additional course topics include scripting, Linux and command line programming, virtualization and distributed computing, version control, and data storage mechanisms. This course will prepare students to take the AWS Certified Cloud Practitioner certification exam. Prerequisite: CSC 142 recommended.

CSC 162 Web Site Development for New Media (3-0) 3 credits

This course is an introduction to Web site development. Students will learn how to design and develop Web pages using current technologies and tools. Topics covered will include the World

Wide Web, HTML, Cascading Style Sheets (CSS), current browsers, and Adobe's Web site creation and management application, Dreamweaver. Other topics include Web publishing, Web standards, and intellectual property law.

CSC 164 Introduction to Scripting for New Media (3-0) 3 credits

Introduction to scripting for New Media serves as a beginning level programming course for AS New Media students. This course emphasizes problem solving by way of the development and implementation of scripts in a web based environment. Writing code and using external scripting libraries in a structured object oriented scripting language will be covered. A contemporary scripting language is used throughout the course. Prerequisite: CSC 162.

CSC 190 CS2: Object-oriented Software Development (4-1) 4 credits

CS2: Object-Oriented Software Development covers algorithm development and object-oriented design and development for large-scale software and graphical user interfaces (GUIs). This course is the second in a series of three required programming courses for a traditional computer science degree. Topics to be covered include objects and classes, procedural vs. object-oriented programming, reference data types, class libraries, class design, class abstraction and encapsulation, inheritance and polymorphism, exception handling, abstract classes, graphical user interfaces (GUIs), and event-driven programming. Prerequisite: CSC 115 with a grade of C or better.

CSC 200 CS3: Data Structures (4-1) 4 credits

CS3: Data Structures covers the fundamentals of data structures, introduction to analysis of algorithms, and team development of software applications. This course is the third in a series of three required programming courses for a traditional computer science degree. Data structures covered include sets, lists, stacks, queues, linked lists, binary trees, and heaps. Advanced topics include, binary search trees, search and sort algorithms, recursion, and algorithm efficiencies in software development. Students will be introduced to project management and team dynamics through the development of a large software solution. Prerequisite: CSC 190.

CSC 206 IPv6 (3-0) 3 credits

This course features extensive hands-on activities for IPv6, the protocol that's replacing IPv4 for addressing and communication worldwide, more and more each day. Topics include IPv6 packet format, differences between IPv4 and IPv6, IPv6 address space, IPv6 address notation, types of IPv6 addresses, IPv6 addressing schemes (EUI-64, random addressing, manual addressing), IPv6 device configuration (DHCPv6, stateless autoconfiguration, stateful autoconfiguration, privacy extensions), duplicate address detection, ICMPv6, Neighbor Discovery Protocol (Router Solicitation, Router Advertisement, Neighbor Solicitation, Neighbor Advertisement, Tunneling (6RD, DS-Lite), DNS with IPv6, IPv6 security, IPv6 impact to applications, dual stacking, and more. Various tools and utilities will be used throughout the course. Prerequisite: CSC 260

CSC 212 MS Excel for Business Applications (3-0) 3 credits

This course offers students the opportunity to master the advanced functionality of Microsoft Excel, and to apply those skills to genuine business applications such as financial modeling, reporting, and the automation of accounting and financial tasks. Although the basic functions of Excel will be covered, areas of focus include graphs and charts, the use of advanced financial

functions and analytical tools, reporting templates, linking of worksheets and workbooks, importing and manipulating data, macros (automation of tasks), auditing tools, and other features especially useful to the financial or accounting professional. Prerequisites: Placement into Math Level 1 or MAT 110. (Also listed as BUS 212)

CSC 216 Introduction to C# (3-0) 3 credits

This course is designed to present to the student the basic data structures necessary to design and write structured programs in C#. The topics covered DataTypes, Methods/Behaviors, Classes, Decisions, Looping Structures, Arrays, Collections, Windows Programming Events, Databases and Web-Based Applications. Prerequisite: CSC 115 with a grade of 'C' or better.

CSC 222 Web Development I (3-0) 3 credits

Web Development I is an introduction to, and the first of a 2-course sequence in web page development. Students will learn how to design and develop basic Web pages using current technologies and tools. Topics covered include the World Wide Web, HTML, XHTML, CSS, and basic digital imaging techniques. This course will serve as an introduction to Internet technologies used to support browsing, file transfers, e-commerce, and standardization. Other topics addressed include web site publishing, accessibility, social communication, and intellectual property rights as they relate to Web content. Prerequisite: Either CSC 115 or CSC 116 with a grade of C or better, or equivalent experience.

CSC 231 Systems Administration (3-0) 3 credits

This course features extensive hands-on activities for current systems administration tasks used in industry today. Topics include installing and configuring a server operating system, DNS, DHCP, Active Directory, Group Policy Objects, and more. Various tools and utilities will be used throughout the course. Prerequisite: CSC 260

CSC 241 Fundamentals of Game Design (3-0) 3 credits

This course focuses on designing player-centric games and conveying these to a development team. Students will study elements of a game design document, develop sample documents to communicate their game concepts, and produce games in teams. Topics to be covered include elements of gameplay, game concepts, core mechanics, level and world design, character development and design, and storytelling and narrative. Industry games will be critiqued on how well they embody player-centric design. This course is designed for the AS Game Programming and Design student. Prerequisite: CSC 141.

CSC 242 Introduction to 3D Computer Animation (3-0) 3 credits

This course is designed for the AS Game Programming and Design student, or a student who has a strong interest in 3D asset development for animations or games. This course will cover the concepts, principles, and techniques used for designing, creating and manipulating 3D computer models, images and animations. Topics include 3D modeling, texturing, rendering, rigging, animation, lighting, cinematography, and a study of motion. Students will develop their skills in working with a 3D creation suite to develop assets and animations needed in games and films.

CSC 243 Systems Analysis and Design I (3-0) 3 credits

This course is an introduction to systems analysis and design. It includes such topics as: defining

the scope and objectives of a system project, investigative techniques, performing a feasibility analysis, design of input/output forms, database concepts and transaction file organization. Tools that the analyst uses are also introduced, i.e., data flow diagrams, system flowcharts, and use case diagrams. A variety of exercises and a case study will be performed by the students in teams, which will serve to emphasize the material covered in the text. Prerequisite: CSC 115 or equivalent experience.

CSC 246 Game Programming Algorithms and Techniques (3-0) 3 credits

This course presents a detailed overview of many of the important algorithms and techniques used in video game development. Coursework will build on students' current knowledge of programming and game design and will focus on many concepts used in the game industry today. Fundamental techniques in 2D and 3D graphics, lighting, input, sound, physics, and AI will be covered. There is a strong emphasis on manipulating vectors using vector math, as well as studying key transformation matrices and their functioning. These techniques will be used to develop sample games and simulations. Prerequisite: CSC 190. PHY 118 Strongly recommended.

CSC 248 PowerShell (3-0) 3 credits

This course features extensive hands-on systems administration tasks through PowerShell, as used in industry today. Topics include automating tasks, cmdlets, providers, the pipeline, objects, formatting, filtering, remoting, writing scripts, and more. Prerequisite: CSC 260

CSC 249 Computer Architecture and Organization (4-0) 4 credits

This course is designed for Computer Science majors. Topics include: classical von Neumann machine, major functional units, primary memory, representation of numerical (integer and floating point) and nonnumerical data, CPU architecture, instruction encoding, fetch-decode-execute cycle, instructional formats, addressing modes, symbolic assembler, assembly language programming, handling of subprogram calls at assembly level, mapping between high level language patterns and assembly/machine language, interrupts and I/O operations, virtual memory management, and data access from magnetic disk. CSC 190

CSC 250 Computing Sciences Internship 3 credits

The Computing Science Internship is a degree culminating course that will provide the student with an opportunity to gain "real-world" experience. The student will apply learned skills acquired through course work in any of the computing science degree programs to a work experience. The internship will also provide an awareness of career opportunities in the computing science and information technology fields. Students gain skills in job searching, interviewing, presenting, journaling, and professional conduct. This full-time work experience provides students with skills to find a job upon graduation. Students must have a 2.0 GPA to take this course. Prerequisites: permission of instructor.

CSC 251 Applied Database Concepts (3-0) 3 credits

An introduction to database design and development. Database normalization, data integrity, concurrent updates, and data security will also be discussed and practiced. Emphasis will be on using at least two popular database management systems to build and maintain relational

databases. The student will create databases, queries, custom forms and reports. Additionally, SQL programming will be used extensively. Prerequisite: CSC 115 with a “C” or better.

CSC 253 Cloud Operations (3-1) 3 credits

This course is designed to prepare students to pursue entry-level DevOps, support, and cloud operations roles. The course includes Amazon Web Service (AWS) Academy Cloud Operations, which is developed and maintained by Amazon. It will also help prepare students to take the AWS SysOps Administrator – Associate exam. Emphasizing best practices in the AWS Cloud and recommended design patterns, this course will teach students how to solve problems and troubleshoot various scenarios. The course will show students how to create automatable and repeatable deployments of networks and systems on AWS and covers specific AWS features and tools related to configuration and deployment. With case studies and demonstrations, students will learn how some AWS customers design their infrastructures and implement various strategies and services. Students will also have the opportunity to build a variety of infrastructures via guided, hands-on activities. Prerequisite: CSC 153.

CSC 255 Game Programming Team Capstone Project (3-0) 3 credits

This course is offered in a student-centered and student-directed manner where students demonstrate that they have achieved the goals for learning established by FLCC and the Computing Sciences Department. Students will develop a digital game which requires the command, analysis and synthesis of game programming knowledge and skills as well as game design, scheduling and production techniques. As part of a team, students will create the software from concept to publication, present the game in a public exposition, and finalize their portfolio. Prerequisites: CSC 246.

CSC 260 Networking Technologies (3-0) 3 credits

This course is the prerequisite and absolute foundation for all upper level networking and cybersecurity courses, and features extensive hands-on activities. Topics include the OSI Model, MAC addresses, IP addresses, local communication vs. remote communication, packet sniffing, the TCP/IP protocol suite including ARP, ICMP, TCP, UDP, DNS, DHCP, IGMP, IMAP, SMTP, SSH and more, subnetting, switches, routers, cables virtualization, Ethernet, wireless, cybersecurity, and more. Various tools and utilities will be used throughout the course. Co-requisite: CSC 103

CSC 261 Routing and Switching (3-0) 3 credits

This course features extensive hands-on activities for current network administration/network engineering techniques used in industry today. Topics include the Cisco IOS, configuring routers and switches, SSH, creating LANs and WANs, VLANs, OSPF, ACLs, troubleshooting and more. Prerequisite: CSC 260

CSC 270 Principles of Information Security (3-0) 3 credits

This course is an introduction to the various technical and administrative aspects of Information Security and Assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. Students will be exposed to the spectrum

of Security activities, methods, methodologies, and procedures, technical and managerial responses and an overview of the information security planning and staffing functions.

CSC 271 Hardware and Operating Systems (3-0) 3 credits

Hardware and Operating Systems is a course designed to prepare students to successfully earn CompTIA's A+ certification. This course requires students to assemble, repair, configure and optimize modern computer systems. Students will be given a broad overview of computer systems, problems and solutions. Emphasis will be made to allow students to experience actual challenges with a computer, and design their solution.

CSC 272 Linux (3-0) 3 credits

This course features extensive hands-on activities for Linux systems used in industry today. Topics include file system management, Linux utilities, the Bash Shell, scripting, systems administration, networking, cybersecurity, and more. Various tools and utilities will be used throughout the course. Prerequisite: CSC 260

CSC 273 Ethical Hacking (3-0) 3 credits

This course features extensive hands-on activities for current ethical hacking/penetration testing techniques used in industry today. Topics include encryption, hashing, man-in-the-middle attacks, password cracking, spoofing, reconnaissance, port scanning, exploiting, covering tracks, Google Hacking, social engineering, and more. Various tools and utilities will be used throughout the course. Prerequisites: CSC 260

CSC 274 Digital Forensics (3-0) 3 credits

Computer Forensics and Investigation presents principles and techniques of conducting computing investigations. Computer forensics involves obtaining and analyzing digital information for use as evidence in civil, criminal, or administrative cases. Topics include: ethics, current computer forensics tools, digital evidence controls, processing crime and incident scenes, data acquisition, e-mail investigations, and becoming an expert witness. Hands-on experience, using a forensic software package will be part of the course. Prerequisites: CSC 260 or equivalent experience.

CSC 295 Current Topics in Computing and Technology (3-0) 3 credits

This course covers new topics and developments in the field of computing sciences. These topics are beyond the scope of standard CSC courses, and are of interest to faculty and students. Some topics of current interest in the industry may include game programming, a new programming language, and programming hand-held technology devices. This course may be taken more than once, as long as the course content changes. Prerequisite: Permission of the instructor. Course offered as appropriate.

Culinary Arts

CUL 100 Culinary Fundamentals (3-0) 3 credits

This lecture course is the foundation course for the culinary arts curriculum. The course focuses on developing students' understanding of the history of the culinary industry as well as examining proper identification, preparation, and evaluation of basic culinary ingredients. Students will learn the principles of cooking as well as proper cooking methods for different products. Basic math skills necessary for recipe conversions will be introduced as well as writing standard recipes. Co-requisite: CUL 105.

CUL 105 Culinary Fundamentals Lab (0-4) 1 credit

This lab class is offered concurrently with the CUL 100 lecture class. In this course, students will put into practice concepts and knowledge discussed in the lecture class. Students will learn basic cooking methods and techniques as well as basic kitchen safety, knife safety, and sanitation principles. Students will also learn plating and presentation techniques. Co-requisite: CUL 100.

CUL 110 Intermediate Culinary Applications (3-0) 3 credits

This is the second lecture course in the culinary arts program. This first segment of this course will explore the basic procurement, preparation, and cooking of "center of the plate" protein items and successfully pairing these items with sauces, vegetables, and starches to create complete plated products. Family style and buffet plating techniques will also be covered. The second segment of the course will be focused on introductory techniques in the bakeshop. Prerequisite: CUL 100. Co-requisite CUL 115.

CUL 115 Intermediate Culinary Application Lab (0-4) 1 credit

This lab class is offered concurrently with the CUL 110 lecture class. In this course, students will put into practice concepts and knowledge discussed in the lecture class. In the first segment, students will learn proper handling and fabrication of center of the plate protein items. Students will also learn proper cooking techniques for various proteins including moist heat, dry heat, and combination cooking methods. Appropriate plating and presentation methods will also be addressed. In the second segment, students will learn basic techniques to successfully produce high quality baked goods including ingredient identification, proper measurement, and adherence to recipes. Prerequisites: CUL 100, CUL 105; Co-requisite CUL 110.

CUL 120 Foodservice Sanitation (1-0) 1 credit

This course will examine the critical role of proper safety and sanitation in today's professional foodservice environment. Students will learn industry standards in use today via the National Restaurant Association's Servsafe Food Handler course. Students will learn about protecting customers from biological, chemical, and physical hazards as food moves through the operation. Successful completion of this course will result in the student passing the exam for Servsafe sanitation certification, a required certification for food service operators in New York State. (Satisfactory or Unsatisfactory grade.)

CUL 125 Regional American Cuisine (0-2) 1 credit

This course is the practical application of American Regional Cuisines. This course will explore the differences in spices, cooking techniques and flavors from around the United States.

CUL 135 Meat and Seafood Cutting and Identification (0-2) 1 credit

This course will allow students to understand the USDA grading system for quality and yield, further enhance knife skills and practice different fabrication skills. Students will prepare sausage, ground beef, stew meat, and fabricate ducks, chickens, and both flat and round fish. Students will also learn various techniques for preparing these items.

CUL 140 Beverage Fundamentals (3-0) 3 credits

Students will examine the world of beers, wines, and spirits in the context of the foodservice industry. Students will learn relevant terminology as well as the fundamentals of production for each beverage group. Students will examine how differences in food and culture have led to similar offerings throughout the world. Responsible beverage service as well as pairing products with food will be covered as well as the significant availability of local products.

CUL 145 International Cuisine (0-2) 1 credit

Explore the most influential cultures and flavor profiles from around the globe. Learn to identify the distinctly different and common ingredients that identify each major cuisine, while practicing traditional and modern techniques to produce contemporary restaurant quality menu items.

CUL 190 Food and Beverage Cost Controls (3-0) 3 credits

Students will examine the various factors that are responsible for cost fluctuations in a foodservice operation with regard to the areas of food, beverage, and labor. The class will focus on the following concepts: accurate cost assessment, interpretation of financial statements, tools and methods used for cost analysis as well as cost adjustments/control through operations, policy, purchasing, and human resources. Various types of fraud and ethics in operation will also be discussed.

CUL 200 Garde Manger and International Cuisine (3-0) 3 credits

This is the third and final course in the culinary technical program. This course will explore the garde manger and charcuterie disciplines as well as other traditional preservation methods. The course will also address the pastry discipline and discuss the role of the modern pastry chef in today's foodservice industry. This course will examine the revival of local foods and artisanal products and students will develop tastings menus to feature these ingredients. Prerequisite: CUL 100. Co-requisite: CUL 205.

CUL 205 Garde Manger Lab (0-4) 1 credit

This course is the practical application of Advanced Culinary Applications. This course teaches garde manger techniques as well as exploring the discipline of charcuterie. Students will learn more advanced food preparations as well as the basics of preserving foods for later use. Students will also learn to make complex plated dessert offerings. Significant emphasis will be placed on local food sourcing and executing tasting menu that feature and highlight local offerings. Prerequisite: CUL 105. Co-requisite CUL 200.

CUL 215 Sous Vide Cooking (0-2) 1 credit

A revolution in cooking Sous vide is the culinary innovation that has everyone in the food world talking. This course will cover the basics of how sous vide works, buying the right equipment, how to season sous vide foods, and how to cook sous vide safely while achieving optimum results.

CUL 220 Culinary Professional Work Experience 2 credits

This is an experiential learning course of study in kitchen operations. Students will be required to complete a minimum of 180 work hours at a culinary institution based on their career goals. Students may choose to participate in a kitchen in the health care industry, restaurants, hotel banquet facilities, etc. Students will be required to enter into an internship contract. Elements of this class are taught in other classes as it is a summer experience. Prerequisite: Completion of the 100 level culinary core courses. Graded on a satisfactory/unsatisfactory basis.

CUL 225 Baking and Pastry (0-2) 1 credit

This course is designed to give students an understanding of the terminology and procedures involved in the successful operation of the bakeshop. Emphasis will be placed on the importance of developing the skills of proper production as well as ingredient identification, recipe conversions, accurate measurements, and the chemical changes associated with successful baked products.

CUL 255 Culinary Restaurant Practicum (5-0) 5 credits

This course will deliver real time experience in restaurant operations. Students will have the opportunity to work rotations through the various stations at Julia, a Friday evening restaurant at FLCC. The students will learn how to successfully operate a prix fixe menu using the Café kitchen and stage 14 as a dining room. The students will get “real life” practical experience while continuing to develop skills essential to a career in culinary arts. Students will learn about customer service and front of the house operations as well as culinary applications in the back of the house. Prerequisite: CUL 100, CUL 105

CUL 270 Hospitality Management Seminar (3-0) 3 credits

Students will learn food service supervisory management as well as human resources in the culinary field. This course will emphasize entrepreneurship in food service industry as the final project students will create a handbook for employee training and HR policies. Students will also hear from guest speakers that have opened various types of businesses and learn about both the challenges and rewards of starting a business. Prerequisite: CUL 100, CUL 105.

Digital Media

DIG 100 Introduction to Digital Media (3-1) 3 credits

This course introduces the tools, techniques, and concepts behind the production of digital media through the practice of good design. Application of digital media technologies including operating systems, hardware, software, and multimedia design are explored. Topics covered include: definition of digital media, overview of digital media technologies, digital media production, Design Principles and opportunities for careers using digital media.

DIG 110 Digital Photography (4-0) 3 credits

This course is designed to provide an introduction to digital photography and will cover the creative process and appreciation of methods of artistic expression through projects and exercises. The course will cover the parts of the camera and how they are used, technical and practical aspects of the digital camera, the composition of photographs using principles of art,

critical analysis of photographs through peer critique and the study of notable artists, the use of image editing software and editing and manipulating photographs, and output options. The class will also cover basic techniques for improving picture quality. (Also listed as ART 110) This course carries SUNY General Education The Arts credit.

DIG 120 Digital Media Design (3-1) 3 credits

This course covers motion design fundamentals. Topics covered include: Animation Principles, Traditional Animation concepts and methods, Post Production Process, storyboarding and more. You will also gain a basic understanding of After Effects, DragonFrame, Dreamweaver and Premiere to help achieve the above goals. Prerequisite: DIG 100.

DIG 200 Audio for Film & Video (3-1) 3 credits

This course is an exploration of the principles and applications of digital audio in today's recording and multi media industries. Topics discussed include: digital audio fundamentals, recording and reproduction systems theory, computer and hardware based recording, editing, and audio for music and multimedia applications. (Also listed as COM 200)

DIG 210 Introduction to Game and Mobile Application Development (4-0) 3 credits

Introduction to game and mobile development explores techniques and concepts involved in developing applications for multiple devices on different platforms. This course will build upon the knowledge already gathered in the prerequisite courses and focus the development to current mobile operating systems and web deployment. Students will experience the possibilities and challenges of developing applications, GUI design and games for multiple platforms while gaining an understanding of the challenges and opportunities that a fragmented market provides. Prerequisite: CSC 164, DIG 120.

DIG 230 New Media Production (4-0) 3 credits

This course serves as a capstone experience for students in the A.S. New Media program. Students will utilize digital video, audio, interactivity, web and design skills to complete new media projects. Prerequisites: COM 215 or COM/ENG 223, DIG 120, DIG 200, DIG 210.

Experienced Based Learning

EBL 090 Internship Course 3 credits

This course provides the student with the opportunity to gain practical work experience under the supervision of a professional in their field in a day-to-day on-site place of employment. The student must complete a minimum of 90 hours at their internship site during the semester. The internship site can be any site that will assist the student in exploring their career path and that can meet the learning outcomes of the course. During the semester the student must participate in hybrid (online and in person) learning modules during which the student will have an opportunity to reflect on their work experience and work with other students to answer questions relevant to their course of study, work experience and career field. The student will complete a final presentation as a culminating project of their experience and submit both a final self-evaluation and an employer evaluation.

Economics

ECO 100 Survey of Economics (3-0) 3 credits

This is an introductory course dealing with the principles of economics and how they are applied to consumer choices, business decisions, and within the domestic economy. Students will examine the role of public/private sectors, markets, market structures, economic indicators, and fiscal and monetary policies as they relate to the U.S. economy.

ECO 210 Principles of Macroeconomics (3-0) 3 credits

This is an introductory course on the principles of macroeconomics, and how they are applied to the domestic and international economy. Students will examine economic data such as GDP, unemployment, inflation, and income distribution. Fiscal and monetary policies will be analyzed for their impact on the U.S. and global economies. This course carries SUNY General Education Social Sciences credit.

ECO 211 Principles of Microeconomics (3-0) 3 credits

This is an introductory course dealing with the methods and principles of microeconomics and how to better understand economic behavior and economic decision-making. Specifically students will understand the fundamental concepts of microeconomics dealing with the characteristics of market structures, how business firm prices, costs, and profits are determined. In addition, students will learn how resource prices are established and what specific roles of government are within the market system. This course carries SUNY General Education Social Sciences credit.

Education

EDU 101 Teacher Assistant I (3-0) 3 credits

This course is designed to help prepare para-professionals to assist certified teachers in the education of children. Students will develop the instructional techniques necessary to function as a teacher assistant, gain an understanding of the functioning of a school system, and explore current trends in education.

EDU 102 Teacher Assistant II (3-0) 3 credits

This course is designed to continue to prepare para-professionals to assist certified teachers in the education of children. Students will develop the instructional techniques necessary to function as a teacher assistant, gain an understanding of the functioning of a school system, and explore current trends in education.

EDU 200 Foundations of American Education (3-0) 3 credits

This course is a study of the historical, philosophical, social and cultural forces on education in America. Students will use foundational analysis to problem solve within the field of education. This is the first course for students who are interested in teaching as a career. Students will explore a variety of teaching settings and best practices. Prerequisites: EDU 101 or FYS 135 or HPE 187.

EDU 210 Schools in America: Organization and Issues (3-2) 4 credits

The course focuses on the dynamics of the school setting and on the interaction between and among students, teachers, administrators, families and others in the community. Topics covered in this course include: diversity, current issues, curriculum, and school structures. This course includes thirty hours of guided observation field experience in the K-12 school setting.

Prerequisites: EDU 200.

Emergency Medical Services

EMCR 125 EMS Management (3-0) 3 credits

This course is intended to provide information that will enable persons just entering the profession or expanding their roles to have the ability to work with emergency management issues. The course provides an overview of the characteristics, functions and resources of an integrated system and how various emergency management services work together in an integration of resources and capabilities. Emphasis will be placed on how this system is applied to all hazards for all government levels, across the four phases and all functions of emergency management. Also included is instruction on federal requirements for meeting the NIMS objectives. Prerequisite: Open to all EMS/Fire providers, or with permission of instructor.

EMCR 130 Certified First Responder 2 credits

This course offers basic training to the professional rescuer who arrives first on the scene of a medical emergency. The purpose of this course is to improve the quality of emergency medical care to patients in the pre-hospital setting by personnel involved in on-scene rescue.

EMCR 135 Certified First Responder Refresher 1 credit

This course is designed for individuals who have been certified by NYS Department of Health as a Certified First Responder for the purpose of maintaining their competency and certification in providing emergency medical care. This course reviews the basic training to the professional rescuer who arrives first on the scene of a medical emergency. The content reviews the concepts and materials covered in the CFR Original course. After successful completion of this course, students are eligible to take the NYS DOH BEMS Certification Examination. Recertification is required every three (3) years. Prerequisite: Proof of certification as a CFR.

EMCR 195 Paramedic I 16 credits

The Paramedic I course establishes the parameters that a paramedic operates within while in the pre-hospital setting. The Paramedic's scope of practice includes basic and advanced skills focused on the acute management and transportation of the broad range of patients who access the emergency medical system. This may occur at an emergency scene until transportation resources arrive, from an emergency scene to a health care facility, between health care facilities, or in other health care settings. In some communities, Paramedics provide a large portion of the out-of-hospital care and represent the highest level of out-of-hospital care. In communities that use emergency medical dispatch systems, Paramedics may be part of a tiered response system. In all cases, Paramedics work alongside other EMS and health care professionals as an integral part of the emergency care team. The Paramedic's scope of practice includes invasive and pharmacological interventions to reduce the morbidity and mortality associated with acute out-

of-hospital medical and traumatic emergencies. Emergency care is based on an advanced assessment and the formulation of a field impression. The Paramedic provides care designed to minimize secondary injury and provide comfort to the patient and family while transporting the patient to an appropriate health facility. Topics include roles and responsibilities of a paramedic, medical and legal considerations, EMS communications and documentation. This course provides students with a general overview and principles of anatomy and pathology along with life span development. Students are also provided with the fundamentals of pharmacology including routes of drug absorption, administration, distribution, bioformation and elimination, dosage calculations and packaging. Also covered will be anatomy and physiology of the respiratory system and airway. Emphasis on oxygen therapy and advanced and difficult airway management techniques will be covered during this program. Endotracheal intubation, paralytics and surgical airway are some of the procedures taught. Topics will also include anatomy of the vascular system with emphasis on the pathophysiology of shock. The student will be provided with a solid understanding of patient assessment which is the foundation for providing quality patient care. Additional topics will include cardiac emergencies, basic anatomy, physiology, pathophysiology of the heart. Identification of arrhythmias is presented along with the appropriate pre-hospital management modalities. Twelve lead ECG interpretations, pharmacotherapy, defibrillation, cardioversion and pathophysiology of more common cardiovascular diseases will be covered. With this the student will be prepared for certification by the American Heart Association in Advanced Cardiac Life Support along with Pediatric Advanced Life support, which includes care for the pediatric and neonate patients. During this course students will be required to perform clinical requirements in communications, morgue labs, operating room labs, phlebotomy labs, coronary care units, as well as shadowing nurses and physicians in emergency departments. Along with the above clinical requirements, the student will begin a field internship with approved advanced life support agencies and designated preceptors. Prerequisites: Must hold a minimum certification of a NYS EMT and maintain that certification throughout the entire program. Student must be accepted into the Paramedic Certification Program.

EMCR 196 Paramedic II 16 credits

The Paramedic II course continues from Paramedic I covering the parameters that a paramedic operates within while providing appropriate care in the pre-hospital setting. Topics include medical emergencies frequently covered in the pre-hospital setting, with an emphasis on pathophysiology and management. Topics on abdominal, genitourinary, neurological, behavioral and respiratory emergencies will be instructed. Included will be basic anatomy, physiology and pathophysiology of the endocrine system, including allergies, anaphylaxis, toxicology, hematology, pulmonology and infectious diseases. Also covered will be behavioral and environmental emergencies. Also included in this course the student will study trauma to the various body systems, including burns, along with the kinematics and mechanism of injury. Students will also be prepared for certification in International trauma Life Support. Also covered will include scene management in various situations. Topics included will be providing care to geriatric patients emotional and psychological emergencies, patients with disabilities and addressing emergency care to patients involved in abuse, assault, and domestic violence. Students will study ambulance and rescue operations, along with the Medical Incident Command System. During this course students will be required to complete clinical requirements including pediatric emergency departments, pediatric intensive care units, obstetrics, medical/surgical

intensive care units, adult care and emergency departments shadowing with physicians and nurses. Also, students will be required to complete all remaining clinical requirements, along with the necessary requirements for field clinical experience by riding with approved advanced life support units and preceptors. At the end of this semester, the student will meet with the Paramedic Review Committee to determine eligibility to take the New York State Department of Health Practical and Written Exam. Prerequisites: Must hold a minimum certification of a NYS EMT and maintain that certification throughout the entire program. Student must be accepted into the Paramedic Certification Program. Student must have successfully completed Paramedic I.

EMCR 200 Emergency Medical Technician - Original (1-3-2) 6 credits

The Emergency Medical Technician course prepares the EMT student to provide pre-hospital assessment and care for patients of all ages with a variety of medical conditions and traumatic injuries. Areas of study include an introduction to emergency medical services systems, roles and responsibilities of EMTs, anatomy and physiology, medical emergencies, trauma, special consideration for working in the pre-hospital setting, and providing patient transportation.

EMCR 205 Emergency Medical Technician - Refresher (1-3) 2 credits

The content reviews the concepts and materials covered in the EMT Original course such as preparing the EMT student to provide pre-hospital assessment and care for patients of all ages with a variety of medical conditions and traumatic injuries. Areas of study include an introduction to emergency medical services systems, roles and responsibilities of EMTs, anatomy, and physiology, medical emergencies, trauma, special considerations for working in the pre-hospital setting, and providing patient transportation. This course is designed for individuals who have been certified by NYS Department of Health as EMTs for the purpose of maintaining their competency in providing emergency medical care. Recertification is required every three (3) years. After successful completion of this course students are eligible to take the NYS certification exam. Prerequisite: Proof of certification as an EMT.

EMCR 251 EMT Paramedic Refresher (6-0) 5 credits

This course is designed for individuals who have been certified by NYS Department of Health as an Emergency Medical Technician-Paramedic for the purpose of maintaining their competency in providing advanced adult and pediatric life support. The content reviews the concepts and materials covered in the Paramedic course. After successful completion of this course students are eligible to take the NYS certification practical and written exams. Recertification is required every three (3) years. Persons will only be able to receive college credit for this course once. Prerequisite: Proof of certification as a paramedic or RN/PA with special criteria is required. Call the EMS office at (315)789-0108 for further details regarding specific criteria.

EMCR 260 Critical Care Emergency Medical Transport - Paramedic (5.5-2.5) 6 credits

The Critical Care Emergency Medical Transport course is designed to prepare paramedics and nurses to function as members of a critical care transport team. Critical patients that must be transported between facilities require a different level of care from hospital or emergency field patients. Participants will gain an understanding of the special needs of critical care patients during transport, become familiar with the purpose and mechanisms of hospital procedures and equipment, and develop the skills to maintain the stability of hospital equipment and procedures

during transport. CEEMTP is open to any paramedic or nurse who has a current professional license/certification and a recommended minimum of one year experience in that role.

EMCR 261 Critical Care Emergency Medical Transport - Paramedic Refresher 1 credit

The CCEMTP certificate and renewal are valid for three years. Part of this renewal process is to provide documentation of thirty-six (36) credits of continuing education (CE) as the ALS level with an emphasis in critical care. One of the ways to obtain continuing education is to attend the CCEMTP original program offered. Lectures and labs are broken into the following modules: Critical Care Environment, Breathing Management, Surgical Airway Management, Hemodynamic Management, Cardiac Management, Pharmacological Management, GI, GU and Renal Management, Neurological Management, Complications of Transport and Special Considerations. A student could arrange through the EMS Programs Coordinator to attend the various modules to gain the required continuing education credits. The student would receive written documentation as to the modules attended with the appropriate credits. The student only need attend the hours needed for the refresher. Prerequisite: Current CCEMTP certification.

EMCR 300 Advanced Emergency Medical Technician - Original 4 credits

This course is a more complex course designed for professional rescuers who are interested in expanding and building on their knowledge and skills in the pre-hospital setting. The primary focus of the Advanced Emergency Medical Technician is to provide basic and limited advanced emergency medical care and transportation for critical and emergent patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care and transportation. Advanced Emergency Medical Technicians function as part of a comprehensive EMS response, under medical oversight. Advanced Emergency Medical Technicians perform interventions with the basic and advanced equipment typically found on an ambulance. The Advanced Emergency Medical Technician is a link from the scene to the emergency health care system. The Advanced Emergency Medical Technician's scope of practice includes basic, limited advanced and pharmacological interventions to reduce the morbidity and mortality associated with acute out-of-hospital medical and traumatic emergencies. Emergency care is based on assessment findings. Additionally, Advanced Emergency Medical Technicians provide care to minimize secondary injury and provide comfort to the patient and family while transporting the patient to an emergency care facility. Competencies include early recognition, assessment, treatment of the patient and use of advanced airway management and intravenous infusions, defibrillation and designated pharmacological interventions. Prerequisite: Must hold current NYS Emergency Medical Technician certification and maintain that certification throughout this entire course.

EMCR 305 Advanced Emergency Medical Technician - Refresher 2 credits

This course is designed for individuals who have been certified by the NYS Department of Health as an Advanced Emergency Medical Technician for the purpose of maintaining their competency in providing emergency medical care. The content reviews the concepts and materials covered in the Advanced Emergency Medical Technician – Original course. After successful completion of this course, students are eligible to take the NYS DOH Bureau of Emergency Medical Services certification exam. Recertification is required every three (3) years. Persons will only be able to receive college credit for this course once. Prerequisite: Proof of certification as a NYS Advanced Emergency Medical Technician

EMCR 320 Advanced EMT Critical Care (2-3-2) 6 credits

This course is designed to prepare the student to administer many Advanced Life Support (ALS) procedures on patients in the pre-hospital setting. This course builds upon the EMT-D and EMT-Intermediate courses. The student that successfully completes the didactic, clinical and field internship will be eligible to sit for the NYS certifying exam. The EMT-Critical Care will work under the direction of medical control physicians to provide one of the highest levels of pre-hospital care available in New York State. Prerequisites: Current NYS Certificate as an Advanced EMT-Intermediate through the Advanced EMT-Intermediate course or Advanced EMT-Intermediate Refresher course. Must maintain certification throughout entire course. Pretesting will be required for all students that enroll in the course.

EMCR 325 Advanced EMT Critical Care Refresher (3-1) 3 credits

This course is designed for individuals who have been certified by the NYS Department of Health as an Emergency Medical Technician - Critical Care for the purpose of maintaining their competency in providing emergency medical care. The content reviews the concepts and materials covered in the Critical Care course. After successful completion of this course, students are eligible to take the NYS certification exam. Recertification is required every three (3) years. Persons will only be able to receive college credit for this course once. Prerequisite: Proof of certification as a Critical Care Technician.

English

ENG 090 Enhanced Integrated Reading and Writing (3-2) 4 imputed credits

This course emphasizes the basic rhetorical principles needed for college-level reading and writing as an integrated whole. An emphasis is placed on developing analytical and critical thinking skills and developing essays across a variety of genres and disciplines. This course is a prerequisite for English 101 for students who place into it via the placement exam. This course carries imputed (financial aid) credit. In addition, every week students will devote two hours to delving deeply into course topics. These workshops give students a chance to explore questions and practice skills that are necessary in other college courses' reading and writing assignments.

ENG 095 Analytical Reading and Writing (3-0) 3 imputed credits

ENG 095 emphasizes the strategic reading and writing skills needed for academic success. Students will read materials from multiple academic disciplines and respond in writing appropriate to both the rhetorical situation and to discipline-specific traditions. ENG 095 is a co-requisite course to ENG 101/Composition I for students who place into it via the FLCC placement process. Materials and assignments from Composition I serve as a source for discussions and activities in Analytical Reading and Writing. ENG 095 carries imputed (financial aid) credit.

ENG 101 Composition I (3-0) 3 credits

The goals of Composition I are to develop students' abilities to write at a college level and to think critically. Students learn to make decisions based on rhetorical concerns of the writer's purpose, the readers' needs, and the context in which documents are read. Guided exploration of popular and scholarly sources is interwoven into students' writing as one method of supporting

ideas and connecting with an audience. The course emphasizes reflective, informative, and analytical process-based writing as well as the students' reflection of their learning progress. Co-requisite: ENG 095 or placement into ENG 101. This course carries SUNY General Education Basic Communication: Written credit.

ENG 102 Introduction to Reading Literature (3-0) 3 credits

ENG 102 invites students to learn, practice, and develop the critical reading skills that enable one to understand, interpret, and engage with a variety of literary, academic, and popular texts. Through the study of literature, students will explicitly develop critical reading skills that transfer across disciplines. Prerequisite: Placement at the ENG 101 level or higher or completion of ENG 090 or ENG 095 This course carries SUNY General Education Humanities credit.

ENG 103 Composition II (3-0) 3 credits

Composition II focuses on the rhetorical concerns of argument. The course provides students with increased practice (begun in Composition I) in research, analysis, and genres of writing and explicit instruction in independent student-generated research. The course emphasizes academic research-based reading and writing done throughout college as well as the transfer of these skills into the professional realm. Prerequisite: ENG 101. This course carries SUNY General Education Basic Communication: Written credit.

ENG 110 Introduction to Creative Writing (3-0) 3 credits

This course focuses on the writing of short stories, poetry and creative non-fiction. The art and techniques of these forms are examined in class and practiced in student writing. The workshop format of the course will teach students how to share their own writing and critique the work of other students through class discussion. Previous experience in fiction writing, poetry, and creative non-fiction is not required. Co-requisite: ENG 101

ENG 113 Technical Ethics (3-0) 3 credits

In this writing and research-based course with a technical ethics theme, students in technical programs (e.g. Computing Sciences and Engineering Science) will examine the general relationship between ethical considerations and professional life and the particular consequences of ethical choices. This course prepares students for ethical issues in their technical fields as well as higher-level writing enhancement. Prerequisite: ENG 101. This course carries SUNY General Education Basic Communication: Written and Humanities credit.

ENG 125 Healthcare Communication (3-0) 3 credits

Communication is at the center of providing patient-centered care. Health professionals need to express empathy as they communicate complex and difficult information through a variety of communication modalities. The primary objective of this course is to identify communication skills necessary to be able to communicate effectively within a variety of healthcare contexts. Students will practice research, analysis, and writing in genres used in the field as well as communication episodes that influence health and wellness outcomes. This course is restricted to Nursing Majors only. Prerequisite: ENG 101 (also listed as COM 125) This course carries SUNY General Education Basic Communication: Oral and Written credit.

ENG 200 Children's Literature: Pre-readers to Middle Grade (3-0) 3 credits

Students will learn how children's literature cultivates a love of books in young readers (kindergarten-middle school). Focusing on a variety of literature such as fables, poems, myths, fairy tales, picture books, and chapter books, students will read, research, interpret and write about literary and artistic elements of children's literature. The course is suited for students in AA Liberal Arts and Sciences, AA Childhood Education or the Teaching Assistant certificate programs who need to learn how to select quality, age appropriate texts to be used in children's classroom activities. It is also open to students who enjoy children's literature and wish to study it closely. Prerequisite: ENG 101. This course carries SUNY General Education Humanities credit.

ENG 201 American Literature: 1620 - 1865 (3-0) 3 credits

A study of selected readings from the important literature of the United States. Emphasis is placed on the most significant writings of representative authors from 1620 to 1865. Prerequisite: ENG 101.

ENG 202 American Literature: 1865 - Present (3-0) 3 credits

A study of selected readings from the important literature of the United States. Emphasis is placed on the most significant writings of representative authors from 1865 to the present. Prerequisite: ENG 101.

ENG 203 World Literature I (3-0) 3 credits

ENG 203 is a survey of important literary works from cultures around the world dating from ancient times through the seventeenth century. Prerequisite: ENG 101 and/or ENG 103.

ENG 204 World Literature II (3-0) 3 credits

This course is a survey of important literary works from cultures around the world from the seventeenth century through the present day. Prerequisite: ENG 101 and/or ENG 103.

ENG 206 The Short Story (3-0) 3 credits

This course introduces students to close readings of short fiction: from classical stories of historical importance to modern and contemporary stories, which reflect a changing genre. Prerequisite: ENG 101 and/or ENG 103.

ENG 207 Topics in Literature (3-0) 3 credits

This course is designed to explore literature as it illustrates specific themes relating to a broad variety of human concerns. As such, the content will vary from semester to semester. Topics might include The Graphic Novel, Environmental Literature, Contemporary American Poetry, Women in Literature, Food in Literature, Crime Fiction, Utopias & Alternative Lifestyles, Literature into Film, and Science Fiction. Prerequisite: ENG 101.

ENG 209 Children's Literature: Middle Grade to Young Adult (3-0) 3 credits

Students will examine the importance of literature for older readers (middle grade to young adult) as a way of discovering the complexities of the world. Focusing on a variety of literature such as novels, poetry, and nonfiction texts, students will read, research, interpret and write about literary elements of children's literature. The course is suited for students in AA Childhood

Education or the Teaching Assistant certificate programs who need to learn how to select quality, age-appropriate texts to be used in children's classroom activities. Prerequisite: ENG 101. This course carries SUNY General Education Humanities credit.

ENG 213 Dramatic Literature (3-0) 3 credits

This course is an exploration of the history and genre of drama. By analyzing some of the best-known plays throughout theatre history and how they were performed, students will deepen their understanding of dramatic literature and performance. During the course students will decide on a particular area of research in order to write a critical analysis focusing on one or more play(s). The course culminates in a project focusing on one creative endeavor and reflecting on their chosen area of study. This course is appropriate for students in the Theater track or Humanities track, and also meets the general education Humanities or Art requirement. Prerequisite: ENG 102 or ENG 103 (Also listed as THE 210) This course carries SUNY General Education Humanities and The Arts credit.

ENG 223 Media Writing (3-0) 3 credits

This is an introductory course into the skills of the practicing journalist. Emphasis will be on the study of newsgathering and news writing. Students will employ these skills in the production of material suitable for publication in print and electronic media. Prerequisite: ENG 101. (Also listed as COM 223)

ENG 225 Literary Journal Publishing (3-0) 3 credits

In this course students will be involved in the publication of *The Finger*, an international literary journal founded at FLCC. Students will have the opportunity to garner submissions, select pieces for publication, and promote the journal on campus. In addition, students will maintain a website and a social media presence for the journal. This is a hands-on course and students with creative writing or art backgrounds will benefit from participating in creating and maintaining a literary community. Prerequisite: ENG 102, ENG 110. This course carries SUNY General Education The Arts credit.

ENG 230 Perspectives on Tolkien (3-0) 3 credits

The lasting influence and power of Tolkien's *Lord of the Rings* saga is undeniable - and seeing more mainstream success only with the release of a critically acclaimed series of films and an award-winning massively multiplayer online game. The purpose of this course is to look critically at such things as the books, the films, the game, and other 'versions' to explore how different media handle the same material. We will, as a class, discuss such issues as character and plot development, themes and literary elements, story-telling styles, cultural and historical contexts, benefits and limitations of various media, identity and role-playing games, and the role of audience in storytelling. Placing three different media into socio-cultural contexts will allow us to explore such issues as the role of story-teller, the importance of the visual, and the role of 'game' in today's society. Students in this class can expect to engage in activities such as reading the novels, watching the films, playing the game, writing, discussing and participating in individual and/or group projects that delve into the Tolkien's work and the power of translation. Prerequisite: ENG 102.

ENG 231 Fiction Writing (3-0) 3 credits

Fiction Writing continues to develop students' skill in the elements of fiction, including structure, character, and plot development. Students will critique and revise their writing in workshop seminars. Students develop critical expertise and technical language to better discuss works-in-progress. Prerequisite: English 101. Previous experience in fiction is not required, but the student is expected to be proficient in the mechanics of writing. This course carries SUNY General Education The Arts credit.

ENG 232 Creative Nonfiction Writing (3-0) 3 credits

This course focuses on the writing of Creative Nonfiction. Techniques and skills of the various forms of creative nonfiction, such as The Personal Essay, Memoir, Literary Journalism, Flash Nonfiction, and the Travel Essay are examined in class and practiced in student writing. Students will learn and practice strategies for brainstorming, drafting, critiquing, and revising their work, as well as refining the critical expertise and technical language to help them better discuss works-in-progress. Prerequisite: English 101. Previous experience in creative non-fiction is not required, but the student is expected to be proficient in the mechanics of writing. This course carries SUNY General Education The Arts credit.

ENG 233 Poetry Writing (3-0) 3 credits

This course focuses on the writing of Poetry. Various forms and styles of poetry such as the sonnet, sestina, free verse, and ekphrasitic will be composed. Students will learn and practice strategies for brainstorming, drafting, critiquing, and revising their work, as well as refining the critical expertise and technical language to help them better discuss works-in-progress. Prerequisite: English 101. Previous experience in poetry is not required, but the student is expected to be proficient in the mechanics of writing. This course carries SUNY General Education The Arts credit.

Engineering Science

ESC 100 Introduction to Engineering (2-2) 3 credits

An introduction to various branches of engineering using descriptive and quantitative perspectives. Topics include modeling and mathematical analysis of basic engineering problems related to chemical, mechanical, and electrical systems with incorporation of topics of sustainability and clean environment. Problem solving, critical thinking, and technical writing skills are emphasized throughout the course. Corequisite: MAT 145

ESC 105 Engineering Graphics (1-5) 3 credits

This course includes technical sketching, visualization, design, and the use of computer aided design (CAD). Topics include geometric construction and modeling, lettering, freehand sketching, orthographic projection, isometric projection, oblique projection, sectional views, dimensioning, working drawings, and the use of CAD software. Emphasis is on developing both manual sketching and CAD skills to convey engineering designs in accordance with industry standards.

ESC 170 Computing for Engineers (2-3) 3 credits

A first course that introduces a variety of fundamental computational techniques to the engineering student which are essential in the analysis and solution of engineering problems. The course utilizes the software packages of MATLAB and LabVIEW as the main computational tools. Topics include modeling, simulation, numerical analysis, data acquisition, data visualization, and instrument control. Both the structured text and graphical programming approaches are used in the course. Co-requisite: MAT 145.

ESC 211 Statics (3-0) 3 credits

This course is the first semester of a two-semester sequence in Engineering Mechanics. It presents the theory and application of the principles of statics for use in subsequent courses and in engineering practice. The subject of statics deals with bodies at rest or in equilibrium, including a study of force systems, vectors, analytical methods of solution, friction, center of gravity, centroids, and moments of inertia of areas. Prerequisites: MAT 272, PHY 151.

ESC 212 Dynamics (3-0) 3 credits

This course is the second semester of a two-semester sequence in Engineering Mechanics. It presents the fundamental laws of Newtonian dynamics for particles and rigid bodies, provides a rigorous methodology for solution of problems, and presents a wide variety of examples of application. Subject areas discussed are kinematics and kinetics of particles and rigid bodies including rectilinear, relative, curvilinear, rotational and, plane motion; Newton's Laws, dynamic equilibrium, angular momentum, work-energy principle, impulse-momentum principle, and angular momentum. Prerequisite: ESC 211.

ESC 213 Strength of Materials (3-0) 3 credits

A study of the basic concepts of strength of materials; stress and strain in external loading, shear and torsion; centroids and moments of inertia; shear, moment, and stress in beams; load, shear, and moment diagrams; design and deflection of beams (statically determinate and indeterminate); combined stresses; welded, bolted and riveted joints. Prerequisite: ESC 211.

ESC 222 Electric Circuits (3-2) 4 credits

This course is designed as the introductory course in linear circuit analysis normally offered to engineering students in the sophomore year. It provides an introduction to the theory of circuit analysis. Subject areas include Kirchhoff's Laws, node and mesh analysis, source transformation, Thevenin and Norton theorems, RC, RL, and RLC circuits, sinusoidal response, phasors, and power. An introduction to op-amps is included. There is a strong emphasis on problem solving in the course. Co-requisite: PHY 152.

ESC 235 Thermodynamics (3-0) 3 credits

This is a first course in thermodynamics. It introduces the student to the fundamental concepts of thermodynamics. The topics covered are: first and second laws of thermodynamics, thermodynamic processes as applied to perfect gases and pure substances, energy analysis of heat engines including Carnot, Otto, Diesel, and Stirling, Brayton cycle, gas turbines, jet propulsion, Rankine cycle, power plants, heat pumps, and refrigeration systems. Prerequisites: MAT 271.

ESC 240 Engineering Design (2-3) 3 credits

An introductory course in engineering design where student teams are guided through a comprehensive engineering design-build project. In this course, students will learn about programming microcontrollers, using machine tools, fabricating mechanisms, designing circuit boards, and selecting engineering materials. Teamwork, problem solving, prototype testing, and troubleshooting are skills that are emphasized throughout the course. Prerequisite: MAT 272

Forestry

FOR 243 Introduction to Sustainable Forest Management (3-0) 3 credits

Introduction to Sustainable Forest Management is a course that provides an introduction to past forestry practices as well as current trends in silviculture and sustainable forestry. The course explores the multitude of ecological and societal values that forests provide and are managed for. This course also emphasizes the importance of the myriad of natural factors affecting forest ecosystem health including soils, climate, topography, ecological succession, as well as both abiotic and biotic disturbances. The effect of past management on current local forest condition will also be examined. (Also listed as CON 243)

FOR 244 Introduction to Forest Measurements (2-2) 3 credits

Introduction to Forest Measurements is a course designed to train students in the use of forest measuring equipment and the implementation of standard forest measuring procedures. Some of the topics covered include: basic tree identification, forest resource sampling designs, individual and stand level density and volume estimation techniques, as well as growth and yield models. The course is strongly based on field activities. (Also listed as CON 244)

French

FRN 101 French I (3-0) 3 credits

FRN 101 is a beginning language course designed for students with no previous experience in French, or whose experience does not make placement in a higher level French course advisable. The course is designed to provide students with the fundamentals of French pronunciation, vocabulary and grammar, as well as an introduction to Francophone culture. The course will stress the development of communication skills, especially listening and speaking, but will also promote reading and writing skills. This course carries SUNY General Education World (Foreign) Language credit.

FRN 102 French II (3-0) 3 credits

FRN 102 is a continuation of the introductory level language course (FRN 101), with increased emphasis on vocabulary enrichment and the development of speaking ability as well as strengthening listening and reading comprehension skills. Students at this level will also continue to develop insights into Francophone culture and to draw comparisons with their own culture. Prerequisites: FRN 101 or an equivalent skill level in the language as recommended by the World Languages @ FLCC Language Placement Guide. This course carries SUNY General Education World (Foreign) Language credit.

FRN 201 French III (3-0) 3 credits

FRN 201 expands on the vocabulary and grammatical structures introduced in the first two semesters of study. Emphasis is on the continued development of French language skills through the study and discussion of authentic readings in Francophone literature and culture. Students will learn strategies to improve reading comprehension and fundamental composition writing skills. Students at this level will also continue to develop deeper insights into Francophone culture and to draw comparisons with their own culture. Prerequisites: FRN 102 or an equivalent skill level in the language as recommended by the World Languages @ FLCC Language Placement Guide. This course carries SUNY General Education World (Foreign) Language credit.

FRN 202 French IV (3-0) 3 credits

FRN 202 is a continuation of the intermediate level course (FRN 201). Emphasis is on enhancing communication skills in French, both spoken and written. Students will refine critical reading and writing skills through further exploration of Francophone literature and culture. Prerequisite: FRN 201 or an equivalent skill level in the language as recommended by the World Languages @ FLCC Language Placement Guide. This course carries SUNY General Education World (Foreign) Language credit.

FRN 203 French V (3-0) 3 credits

FRN 203 further develops French speaking, listening, reading, and writing skills at the advanced intermediate level. The course includes an introduction to representative literary works of the French-speaking world and a review of key and complex grammatical structures to support increased focus on reading and composition. Increasing awareness of cultural themes will be reinforced by a variety of activities designed to enhance and stimulate speaking skills. Prerequisites: FRN 202 or an equivalent skill level in the language as recommended by the World Languages @ FLCC Language Placement Guide. This course carries SUNY General Education World (Foreign) Language credit.

FRN 204 French VI (3-0) 3 credits

FRN 204 further develops French speaking, listening, reading, and writing skills at the advanced intermediate level. The course includes continuing study of representative literary works of the French-speaking world and a review of key and complex grammatical structures to support increased focus on reading and composition. Deepening awareness of cultural themes will be reinforced by a variety of activities designed to enhance and stimulate speaking skills. Prerequisites: FRN 203 or an equivalent skills level in the language as recommended by the World Languages @ FLCC Language Placement Guide. This course carries SUNY General Education World (Foreign) Language credit.

Freshman Seminar

ES 100 Liberal Arts First Year Seminar (2-0) 2 credits

First year seminar teaches students about the nature and purpose of a college education. Course topics provide students the opportunity to acquire and apply the skills and strategies necessary to meet their educational goals. Topics range from personal growth issues such as goal setting and

time management to the academic survival skills of textbook reading, test-taking, and writing. Additionally, students will learn the resources and services the college offers to help maximize their educational experience.

First Year Seminar

FYS 110 First Year Seminar in Humanities (3-0) 3 credits

This seminar will prepare first-year learners to study in the Humanities by inviting them to learn and practice explicit skills and strategies necessary for academic inquiry within the discipline. Through critical and creative thinking, reading, and writing, each seminar will focus on a specific question, problem or theme within the Humanities. This will give students a context within which to actively engage, practice, and develop the habits-of-mind central to a Liberal Arts education. The seminar will also offer ample opportunities for learners to become engaged members of FLCC's academic community through both curricular and co-curricular experiences. Additionally, students will be invited to reflect on their own learning processes and academic goals in order to better ensure academic and life success at FLCC.

FYS 120 First Year Seminar in Social Science (3-0) 3 credits

This course will serve as an introduction to social science inquiry. Each seminar will focus on a particular topic, and students will use exploration of that topic to develop the critical thinking, reading, and writing skills needed to fully engage study in sociology, political science, psychology, anthropology, and history. The seminar will also introduce students to practices that are necessary for meaningful learning and academic success, such as self-reflection, mindful study habits, and the use of campus resources.

FYS 125 First Year Seminar in the Arts (3-0) 3 credits

This seminar style course will allow first year learners to explore topics related to the arts. Each seminar will focus on a particular topic posing questions that allow students to think and write critically about various art forms and how they present nuanced and complex explorations of reality and identity. Students will have opportunities to experience the arts on campus and in the local community. The seminar will also introduce students to practices that are necessary for meaningful learning and academic success at FLCC.

FYS 130 First Year Seminar in Science (3-0) 3 credits

This course will serve as an introduction to scientific reasoning, providing students an opportunity to practice posing thoughtful questions, evaluating evidence, and forming hypotheses. Each seminar will focus on a particular topic within science, and students will use exploration of that topic to develop the critical thinking, reading, and writing skills that are necessary for success within the discipline of science. The seminar will also involve reflection on their own learning, habits of successful students and scientists, and how to access campus resources.

FYS 135 First Year Experience for Education Majors (1-0) 1 credit

A seminar introducing students to the field of teaching. Topics include current learning standards, the realities of teaching as a career, certification requirements, professional

expectations, and an introduction to teaching strategies. This course provides students with the opportunity to explore the field of teaching, reflect on their interest in education, and develop connections with current and future educators.

Geographic Information Systems

GIS 130 Introduction to Geographic Information Systems (2-2) 3 credits

An introductory level geospatial technology course designed to introduce students to the concepts and theories of geographic information systems (GIS) and the practice of geospatial analysis. This course consists of a lecture component and a laboratory component. Students will learn to apply GIS concepts through hands-on exercises designed to explore and analyze spatial data. Students will use leading geospatial software used by numerous professions including natural resources conservation and sustainability, business management, criminal justice, and community planning. (also listed as CON 130).

GIS 227 Applications of Global Positioning Systems (GPS) (.5-1) 1 credit

This class will provide students with an introduction to basic theoretical concepts and practical hands-on use of global positioning systems (GPS) with strong emphasis in relation to natural resources management and data collection. (Also listed as CON 227)

GIS 241 Introduction to Geographic Information Systems (2-2) 3 credits

An introductory level geospatial technology course designed to introduce students to the concepts and theories of geographic information systems (GIS) and the practice of geospatial analysis. This course consists of a lecture component and a laboratory component. Students will learn to apply GIS concepts through hands-on exercises designed to explore and analyze spatial data. Students will use leading geospatial software and Global Positioning System (GPS) units used by numerous professions including natural resources conservation and sustainability, business management, criminal justice, and community planning. Also listed as CON 241

General Studies

GST 101 First Year Student Seminar (3-0) 2 credits

First Year Student Seminar is designed to acquaint students with the nature and purpose of a college education. Course topics provide students with the opportunity to acquire and apply the skills and strategies necessary to achieve academic goals and to gain an awareness of available College resources.

GST 116 College Study Strategies (3-0) 3 credits

An examination of learning theories and strategies necessary for college success. Topics include note taking, memory development, textbook reading, test taking, current research techniques, goal setting, and time and stress management. Students will also complete a community project. The course objective is for students to become independent learners who will succeed in college.

GST 117 College Success Strategies (1-0) 1 credit

This five week course will address goal setting, motivation, time and stress management, note-taking and test taking strategies.

GST 130 Peer Tutor Training (1) 1 credit

This course is designed to train students to become effective and efficient peer tutors. Topics will include learning theory, learning styles, diversity, tutoring strategies, interpersonal communication, and study skills.

Health Care Studies

HCS 153 Career Opportunities in Health Care (3-0) 3 credits

This course explores the variety of options available for careers in the health care industry. It will provide the student with information to evaluate career options that will best suit their need and interests. Areas covered will also include resources to aid the development of independent learning skills necessary for success in the health care field and understanding the foundations for the pathway to nursing. This course is open to anyone interested in exploring health care careers and is a requirement for the AS Health Care Studies program. The format of this course includes lecture, class discussion, guest speakers and student presentations.

HCS 154 Medical Terminology (3-0) 3 credits

This is an introductory course into the principles of medical terminology. Medical terminology is the framework for developing a robust medical vocabulary essential to every health care professional. The content includes analyzing individual word parts, body systems, basic medical language, body orientation, health, wellness and disease terms.

HCS 270 Ethical Considerations in Health Care (3-0) 3 credits

The purpose of this course is to involve the student in reading and discussing medical issues from an ethical perspective to create depth in our awareness of the moral problems that cannot be ignored and more often than not, cannot necessarily be solved. The scope of this course will entail examination of different ethical approaches to moral problems in medicine and their success or failure in a broad range of medical issues, including but not limited to: the physician-patient relationship, the role of the healthcare provider, euthanasia and death with dignity, rights to health care/costs of health care and an examination for important concepts such as autonomy, paternalism, rights, consent, and confidentiality. Prerequisite: ENG 103 (Also listed as NUR 270) This course carries SUNY General Education Humanities credit.

History

HIS 100 Early Western Civilization: Greeks to the Renaissance (3-0) 3 credits

This course explores the social, political, intellectual and cultural origins of the Western tradition in Europe, from Classical Greece (5th c B.C.E) and Imperial Rome through the Middle Ages, Italian Renaissance, Protestant Reformation and Age of Overseas Exploration (16th – 17th centuries C.E.). This course carries SUNY General Education Western Civilization credit.

HIS 101 Modern Western Civilization: Enlightenment to the Cold War (3-0) 3 credits

This course examines the social, political, intellectual and cultural development of modern Western civilization, from the 18th century Enlightenment, through the French Revolution, Napoleon, Industrial Revolution, Imperialism, and the tumultuous events of the 20th century: WWI and WW2 and the Cold War. This course carries SUNY General Education Western Civilization credit.

HIS 105 Regional History of the Finger Lakes (3-0) 3 credits

This course explores the economic, political, social and cultural history of the Finger Lakes region, from its early Native American origins to the present, focusing on the unique development of this part of New York State within the larger context of United States history. Using an interdisciplinary and multimedia approach, the course will cover such topics as the sources and methods of local/regional history, native-European contacts in the 17th and 18th centuries, the regional impact of the American Revolution, the War of 1812, the Civil War and the Industrial Revolution, and more recent developments in the areas of transportation, business, viticulture, education and tourism.

HIS 110 Early United States History (3-0) 3 credits

This course begins the exploration of the social, political, intellectual and cultural development of America from 1500 to 1865, covering such topics as the first European settlements, the American Revolution, Age of Jefferson, Westward Expansion, Slavery and the Old South, and the Civil War. This course carries SUNY General Education American History credit.

HIS 111 Modern United States History (3-0) 3 credits

Modern US History explores the social, political, economic, intellectual and cultural development of America from 1865 to the early 21st century. It covers such topics as Reconstruction, industrialization, Western expansion, the Progressive era, the Great Depression, the New Deal, America's rise as a world power, the Cold War, the Civil Rights movement, Vietnam, Watergate, the Reagan Revolution and the post-9/11 War on Terror. This course carries SUNY General Education American History credit.

HIS 112 Early World Civilizations (3-0) 3 credits

A survey of the political, economic, intellectual, and cultural development of major early global civilizations, from the Agricultural Revolution (c. 10,000 B.C.E) to the sixteenth century C.E. The course also examines the origins of many of the world's foremost religions (Judaism, Christianity, Buddhism and Islam), and considers the myriad ways the ancient, medieval and pre-modern eras have shaped the contemporary world. This course carries SUNY General Education Other World Civilizations credit.

HIS 122 Modern World History (3-0) 3 credits

A survey of modern world history since 1500, with particular emphasis on the histories, cultures, religions, ideologies and geography of the Middle East, China, Africa and other global regions. Significant attention will be given to the frequent, and consequential, interactions between Western and non-Western civilizations during the Age of Imperialism, World Wars I and II, the Cold War and the era of decolonization. This course carries SUNY General Education Other World Civilizations credit.

HIS 206 North American Indian History and Cultures (3-0) 3 credits

This course introduces student to the historical and cultural experiences of the various indigenous populations of North American. Additionally, special emphasis will be given to a number of specific indigenous groups within the 10 cultural regions of North America as we examine this topic from a compassionate yet unromanticized historiographical and cultural perspective. In short, we will work from the premise that Native Americans were active participants in producing that past, both before and after the European contact as opposed to being solely victims of oppression; we do this in order to gain a greater appreciation for their rich and diverse history and cultural status today. Through the lens of anthropology and history, this course will discuss and examine the various native cultures of North America to include: their origins and cultural development through time; the underlying similarities and the wide range of variability within these native societies; the impact of European cultural systems on these groups, and finally, we examine Native American societies as they are today. Prerequisite: ENG 101. (Also listed as ANT 206) This course carries SUNY General Education Other World Civilizations credit.

HIS 261 War and Society in the Age of Total War: WWI and WWII (3-0) 3 credits

This course focuses on the era of total war between 1914 and 1945, the Holocaust and the birth of the atomic age. The First and Second World Wars were history's first modern, industrial, technological, total and global conflicts, whose legacy continues to shape the world today. Of particular interest will be the crucial interaction between war and society: how societies give form and substance to modern conflict and how wars, in turn, spark dramatic social, political and economic change. Co-requisite: ENG 101. This course carries SUNY General Education Western Civilization and Other World Civilizations credit.

HIS 262 The Cold War: To the Brink of Armageddon (3-0) 3 credits

An examination and analysis of the causes, conduct, and impact of the U.S.-Soviet struggle for global supremacy between 1945 and 1991, popularly termed the "Cold War." Particular emphasis will be focused on the "Forgotten War" in Korea (1950-53); the Cuban Missile Crisis (when the world tottered on the brink of nuclear holocaust), and the Vietnam War, the longest and most divisive conflict in American history. Prerequisites: ENG 101.

HIS 265 The Black Death and Beyond: How Disease Has Changed History (3-0) 3 credits

This course investigates the manifold ways in which plague, smallpox, typhus and other diseases have shaped human history, from antiquity to the present. It also explores how civilization (urbanization, imperialism, war, medical and technological progress etc.) have, in turn, influenced the development of disease and helped determine the nature and course of history's greatest epidemics/pandemics. Co-requisite: ENG 101. This course carries SUNY General Education Western Civilization credit.

HIS 269 The United States History since 1945 (3-0) 3 credits

This course focuses on "America's Century," from its victorious participation in the Second World War, through its rise to global political, military, economic and cultural preeminence during the Cold War, to the present. Using a variety of media and striking a judicious balance between foreign policy and domestic developments, this course covers the events, personalities and issues that have shaped Modern America. Major topics include, WWII, birth of the atomic

age, McCarthyism, the mass consumer society of the 1950s, Cold War crises in Berlin, Cuba, Korea and Vietnam, LBJ's "Great Society," civil rights movement, Nixon and Watergate, the space race, Ford-Carter Years, Reagan Revolution, Clinton's Middle Way, America after 9/11 and the Obama presidency. Prerequisites: ENG 101.

Honors

HON 200 Interdisciplinary Honors Seminar (3-0) 3 credits

A course developed around major themes that will be approached from the perspective of various academic disciplines. This course is designed to facilitate in depth study of the topics selected each semester. The Honors Seminar will alternate between problem topics such as "Challenges of the Technological Society" and such philosophical considerations as "Justice: Absolute and Transitional Aspects." Open to all students interested in a particular seminar topic as well as Honors students. See Honors Director for details. Prerequisite: ENG 101.

Hospitality

HOS 100 Introduction to Tourism (3-0) 3 credits

This course is designed to provide an overview of the Tourism Industry. The student will be exposed to the various components which comprise Tourism. There will be opportunities for the student to observe the Tourism Industry thorough field experiences. This course provides the basis for further study in the Hospitality Programs. Students enrolled in this course, as an elective, will have the opportunity to explore another business-related field as a career option.

HOS 101 Principles of Hotel and Resort Management (3-0) 3 credits

An overview of the history, organizational structure, and economics of the hotel business and the career opportunities in the hospitality industry. The emphasis of the course will be an examination of the technical operations integral to hotel and resort management. Areas of study will include: hotel and resort operations; front office operations; food, beverage and restaurant operations; housekeeping and engineering; sales; staff management; and guest service.

HOS 105 Orientation to Hospitality (2-0) 1 credit

This course is designed to expose students to the many career choices available within the hospitality industry. Students in Tourism Management, Food and Beverage Management, Hotel and Resort Management and Culinary Arts will meet together once weekly to explore the many facets of the industry they will study. Students will learn career building skills as well as developing a professional network so vital to the hospitality industry. Students will gain input from guest speakers in addition to the faculty to expand exploration beyond the classroom. Development of professional skills through service learning opportunities as well as industry experience will be emphasized throughout the course.

HOS 135 Front Office Management (3-0) 3 credits

This course will provide detailed analysis of the policies and procedures utilized in managing the rooms division of a hotel. Predominant areas of study will include the front office and

housekeeping. The student will explore guest check-in and check-out, front office operations and structure, reservations and the switchboard, the accounting process, and the night audit. The day-to-day functions of an effective housekeeping department, cleanliness standards, housekeeping procedures, inspecting, and cleaning supplies and equipment will also be discussed. Each student will focus on methods for cultivating a service-oriented attitude in rooms division employees.

HOS 160 Bar and Beverage Management (2-0) 2 credits

This Class is designed to give food and beverage students knowledge in the operation of beverage based hospitality enterprises ranging from coffee houses to bars and taverns. Identifying and serving target markets purchasing and inventory controls, and risk management as well as basic of mixology are topics of study. Students will also study current market trends as well as laws concerning sales and service of alcoholic beverages. Students will also be required to attend and pass TIPS responsible beverage service certification. A passing grade for the TIPS exam will be required for the successful completion of this course.

HOS 210 Hospitality Computer Applications (3-0) 3 credits

This course will examine the relationship between computers and an industry that was founded on high touch rather than high tech. Students will work with actual hospitality software including a front office module of a Property Management System. The class will also learn to manipulate MS Publisher a design software package, and MS PowerPoint, a presentations software package. In all instances, the student will see how computers can be tools for effective management. Prerequisite: HOS 101.

HOS 215 Sustainable Tourism Planning (3-0) 3 credits

This course is designed to provide the student with knowledge regarding the role of management science in the design of a sustainable destination. The student will have an understanding of management science and its application to sustainable tourism destination planning and development. The planning process will be a major focus of study. The student will be exposed to management issues that relate to urban and rural tourism development. The student will have the opportunity to apply course concepts knowledge through case studies of selected destinations. The course will culminate with student teams developing a case study for a specific New York State destination.

HOS 220 Hospitality Marketing and Sales (3-0) 3 credits

A comprehensive introduction to procedures and practices involved in services marketing and sales, such as: product research; development and packaging; pricing strategies; advertising and branding; marketing research and market evaluation; promotions; customer relationship management; the sales process lead to close; component parts of a sales presentation; converting features to benefits; and hospitality distribution channels. Focus is placed upon marketing cooperation with all other business functions and disciplines.

HOS 225 Meeting Planning and Conference Management (3-0) 3 credits

This course discusses the specialized field of meeting and conference management and its impact on the hotel industry. Each student will consider the component parts of a successful meeting and analyze these parts from both a meeting planner standpoint and a hotel management team

standpoint. Areas of study will include: site selection and negotiations, program development, banquet food service, function room set-up, conference support services and meeting evaluation.

HOS 227 Destination Marketing (3-0) 3 credits

This course is designed to provide an in-depth study of the variety of organizations and strategies utilized to market a destination. The student will study marketing management as it relates to a destination. The student will be exposed to the structures of destination marketing organizations, funding sources, and operations. There will be opportunities for the student to apply marketing management theory, utilizing authentic destination/marketing organizational models. This course provides an understanding of the various careers in destination marketing organizations.

HOS 230 Hospitality Law (3-0) 3 credits

Hospitality law is designed to introduce the student to the legal issues surrounding the practices of the hospitality industry. Topics to be covered include, but are not limited to: contract law, negligence, bailment, rights of innkeepers, rights of guests, legal responsibilities connected with travel and tourism, liability with respect to the sale of food and alcohol, regulation and licensing, employment issues, and safety and security issues affecting the hospitality industry.

HOS 232 Event Management (3-0) 3 credits

This course is designed to provide an introduction to the principles of event management. A conceptual framework will be developed through definitions, models, and the utilization of case studies. The student will learn how to formulate event tourism strategies for destinations. The planning, development, management, and implementation of festivals, entertainment events, corporate events, cultural events, and sports events will be the focus of study. Specific topics will include event studies, bid preparation, public and corporate sponsorship, negotiations, and volunteer staff management. Students will have the opportunity to volunteer and participate in a variety of authentic events and festivals.

HOS 250 Hospitality and Tourism Professional Work Experience (2-0) 2 credits

The Hospitality and Tourism Management Internship Program enables Finger Lakes Community College students to supplement their academic studies and increase career awareness through field work related to the hospitality industry. The students' activities during the internship will include both participation and observation so that they can develop applicable skills and an understanding of the overall organization and operation of a hospitality enterprise. (Satisfactory or Unsatisfactory grade.) Prerequisite: HOS 100 or HOS 101, 15 credits completed, and a minimum GPA of 2.0 overall.

HOS 260 Tourism Seminar (3-0) 3 credits

The Tourism Seminar is a culminating course designed to provide Tourism students with an opportunity to integrate theory and principles learned in other required courses. This knowledge will be applied to an authentic Tourism project or destination in New York State. The students will work as a team with an assigned mentor from the field to research, evaluate, synthesize information and create an appropriate document. This document will be submitted to the professional mentor for their input and evaluation. The document will include research findings and recommendations.

Health and Physical Education

HPE 102 Basic Rhythms (1/2 - 1 1/2) 1 credit

This course provides the opportunity for students to experience and learn dance steps and movement patterns for several types of dances. Representative styles include Ballroom/Social dancing, Latin dancing, Line dancing, and Folk dancing. Students will also learn to identify the musical beats and rhythms appropriate for each dance. Throughout the course students compile a portfolio of selected dances for future use.

HPE 103 Introduction to Martial Arts-Judo I (1/2 - 1 1/2) 1 credit

This is an introductory course which is ideal for first-time martial arts students interested in learning about various training styles. There is a special emphasis on falling techniques as a gateway skill for Kodokan Judo training.

HPE 105 Ice Skating (1/2 - 1 1/2) 1 credit

This course is designed for beginner-advanced ice skaters. Instructional emphasis will be placed on safely learning the life-long activity of ice skating. Students will be introduced to aspects of basic use and care of equipment and safety implications. Students may use their own skates or can rent skates at the rink. Additional fee is required. The rink is located at an off-campus site.

HPE 106 Bowling (1/2 - 1 1/2) 1 credit

This co-educational activity includes instruction in the fundamental skills, rules, and etiquette that govern the activity. An additional fee is required.

HPE 107 Golf (1/2 - 1 1/2) 1 credit

This co-educational activity includes instruction in the fundamental skills, rules, and etiquette that govern the activity. An additional fee is required.

HPE 108 Badminton (1/2 - 1 1/2) 1 credit

This co-educational activity includes instruction in the fundamental skills, rules, history and etiquette that govern badminton.

HPE 110 Physical Conditioning (1-1) 1 credit

A blend of aerobic activity and weight training designed to improve one's overall fitness level and encourage participation in physical fitness activities for a lifetime. Fitness testing, discussions/lecture, and individualized, workouts will be incorporated throughout the semester.

HPE 111 First Aid and Basic Life Support (2-0) 1 credit

The student will be trained to respond to breathing and cardiac emergencies as well as use of an Automatic External Defibrillator. Bloodborne pathogen and basic First Aid training will cover immediate care procedures for injuries and common illness. At the conclusion of this course students are eligible to earn certifications in Basic Life Support for the healthcare provider, bloodborne pathogens, and basic First Aid.

HPE 112 Yoga for Beginners (1/2 - 1 1/2) 1 credit

Yoga for Beginners teaches basic postures and breathing exercises that derive from ancient India. Students are encouraged to develop a greater body-mind alliance, which is often not addressed in our culture. The combination of relaxation, general body toning, flexibility, and meditation gives the student an awareness of their enhanced human potential. Concepts of yoga philosophy are discussed, which provides the basis for the practice of these techniques.

HPE 113 Techniques of Angling (1/2 - 1 1/2) 1 credit

This course introduces the student to fishing in the Finger Lakes area. The course will include laws and regulations, terminology, techniques, and equipment. The course will include scheduled field trips. Additional fee is required.

HPE 114 Martial Arts (1/2 - 1 1/2) 1 credit

This course introduces the student to the fundamentals of martial arts. Emphasis is placed on the physical and mental sides of training, physical fitness, self-discipline, concentration, and meditation.

HPE 115 Tennis (1/2 - 1 1/2) 1 credit

This co-educational activity includes instruction in the fundamental skills, techniques and rules that govern the life-time activity of tennis.

HPE 117 Basic Weight Training (1-1) 1 credit

This course will explore basic techniques of weight training, focusing on the various exercises applied in a weight training program, demonstration of proper technique, and development of an overview of a comprehensive training program.

HPE 118 Skiing/Snowboarding I (1/2 - 1 1/2) 1 credit

This is a beginning skiing/snowboarding course. This course covers techniques, skills and practice drills designed to improve your skiing/snowboarding ability. Discussion and instruction will encompass the latest equipment, safety and etiquette on the slopes. Time will be provided for practice and review of skills learned in class. An additional fee is required.

HPE 121 Walk and Jog (1/2 - 1 1/2) 1 credit

This course is designed for students of any fitness level who are interested in improving their general physical condition. This course will help the student to increase his/her cardiovascular endurance and promote weight loss through walking or jogging.

HPE 122 Concepts of Wellness (1-1) 2 credits

The purpose of this course is to introduce students to the concepts of wellness and how these concepts can be incorporated into their lives. This course will guide the student to the understanding that wellness is not a static condition but rather a continual balance of the physical, social, emotional, and intellectual aspects of human need. The course will also provide students with the skill to improve their quality of life and lead them to a higher state of well-being and optimal health. Exercise is a regular part of the class.

HPE 123 Spinning (1/2- 1 1/2) 1 credit

Spinning is a cardiovascular workout that uses a specialized stationary bicycle which stimulates real cycling conditions. This comprehensive program is totally non-competitive, allowing newcomers and athletes to reach their prospective fitness goals. Additional fee is required. The class is offered at an off-campus site.

HPE 124 Criminal Justice Physical Conditioning (1/2 - 1 1/2) 1 credit

The course is intended to provide criminal justice students the opportunity to prepare for fitness tests used in the selection of entry level police officers. Fitness testing and training for standardized fitness levels that include Sit-ups, Push-ups and a 1.5 mile run will be the focus of the class.

HPE 125 Lifetime Fitness & Nutrition (1.5-0.5) 1 credit

This course is focused on the relationship of nutrition and physical activity to promote and achieve overall lifetime fitness. The student will explore and learn to apply concepts of nutrition, body composition, weight management, cardiorespiratory endurance and flexibility to develop a personal comprehensive fitness plan for life.

HPE 126 Women's Self-Defense Kickboxing (1/2-1 1/2) 1 credit

Women's Self-Defense Kickboxing is a gender-inclusive martial arts class that combines women's self-defense techniques and aerobic exercise. Instruction will include self-defense techniques to defend against chokes, grabs and ground defense, as well as the Run-Hide-Fight safety action plan. Conditioning exercises to enhance strength and flexibility will include various kicks and boxing drills that are choreographed to music.

HPE 136 Introduction to Adventure Learning (1/2 - 1 1/2) 1 credit

This course is an Adventure Education based program designed to provide participants an opportunity to acquire and practice essential life skills while building self-esteem through teambuilding, cooperative games, and ropes challenge courses. Students will learn to solve problems, make decisions, set goals, and develop communication skills in an atmosphere that is both physically and mentally challenging. The course includes individual and group teambuilding activities, cooperative games, safety and spotting techniques. The culminating event in the course consists of a weekend experience; the first day at the Low Ropes challenge course located on FLCC's East Hill campus and the second day at Bristol Mountain Aerial Adventures.

HPE 140 Swimming Fundamentals (1/2 - 1 1/2) 1 credit

This course is designed for any level swimmer (from non-swimmer to advanced) who would like to improve proficiency in stroke development, endurance, and basic water safety. The course develops skills and endurance training necessary to progress into a lifeguarding certification course. This course includes basic rescue techniques.

HPE 141 Scuba (1/2 - 1 1/2) 2 credits

This is the entry-level recreational scuba diving course for students with advanced swimming skills that addresses the Academic and Confined Water requirements for Open Water Certification. The Academic lectures and examinations will provide illustration of basic theory

and knowledge necessary for Scuba diving. The Confined Water (Pool) portion applies the practical experience of skill building and demonstration. Open Water Certification is encouraged but not included. Internationally recognized PADI (Professional Association of Diving Instructors) Certification testing with the instructor may be arranged during the period of the course. Additional fee required.

HPE 150 Beginning Camping (1/2 - 1 1/2) 1 credit

This course is designed to provide basic fundamentals of camping. Strong emphasis will be placed on the appropriate relationship between man and his natural environment. A half-day trip, an organizational meeting and a three-day trip are required. A minimal fee is required.

HPE 151 Canoe & Kayak Paddling Experiences (1/2-1 1/2) 1 credit

This course allows both the novice and the experienced paddler a chance to learn and perfect canoe and/or kayak paddling techniques. Included in this course are steering methods, boating safety, selecting and caring for equipment, choosing appropriate bodies of water and enjoying paddling as a recreational activity. The college will furnish equipment. This course is designed to introduce students to canoe and kayak information and techniques through lecture and experience gained through several half to full day outings. Safety, trip planning, and mastering correct paddling techniques will be discussed. An appreciation for the natural environment and a lifetime of physical activity are stressed throughout the course.

HPE 162 T'ai Chi Chuan I (1/2 - 1 1/2) 1 credit

This course is an ancient health exercise system and martial art. It combines circular movements with coordinated breathing to promote blood circulation, muscle and joint action, and stimulation of the nervous system. Tai Chi is called meditation in motion.

HPE 163 T'ai Chi Chuan II (1/2-1 1/2) 1 credit

This course is an ancient health exercise system and martial art. It combines circular movements with coordinated breathing to promote blood circulation, muscle and joint action and stimulation of the nervous system. Tai Chi is called meditation in motion. This advanced course refines form and incorporates the martial application of each posture. Prerequisite: PE 162.

HPE 164 Stress Reduction Through Exercise (1/2 - 1 1/2) 2 credits

This course will explore the many ways that stress affects us both physically and emotionally. Stress management techniques taught include meditation, progressive relaxation, autogenics and others. Exercise is a regular part of each class.

HPE 165 Oriental Health Arts (1/2 - 1 1/2) 1 credit

This course is designed to introduce an alternative health practice through Qi Gong (energy circulation) training. These techniques promote general health by teaching the student to cultivate energy and create a state of balance in the body.

HPE 166 Biofield Therapy (1/2-1 1/2) 1 credit

This course teaches external healing techniques based upon the theory of the human energy field. Students will learn to re-pattern and balance this energy to facilitate healing in each other's

bodies, as well as their own. A stronger emphasis is on Therapeutic Touch, which is the most research-based of the Biofield therapies.

HPE 167 Aerobics (1/2-1 1/2) 1 credit

Aerobics is a form of cardiovascular exercise that may use an elevated platform (step), exercise routines and movement patterns that are performed to music. This class is designed for beginners and no prior exercise experience is necessary.

HPE 168 Zumba (1/2-1 1/2) 1 credit

Zumba is a dance-fitness class that combines fast and slow rhythms from Latin and international music. The class adheres to a specific interval pacing formula, maximizing caloric output and body toning using easy steps and high energy music.

HPE 170 Introduction to Logging Sports (1/2-1 1/2) 1 credit

This course is designed for the student who wishes to learn about Logging Sports in a controlled, safe, and friendly environment. This class is open to all students. Students should have a desire to learn and participate in logging sports events including axe throwing, sawing, axe chopping and canoeing. Skills in Logging Sports will be refined and integrated into concepts of team play. Students will learn about the sport as experienced in the North East Collegiate Division. Competitive opportunities within the conference and region will be covered as part of this course. Models for effective team building will be discussed. All FLCC students are encouraged to register for the course to learn about a unique sport.

HPE 172 Hunting Fundamentals (2-1) 2 credits

This is a ten-week student participation course designed to develop an understanding of hunting safety, techniques, and ethics. Topics include: identification and safe handling of hunting implements, hunter responsibility, personal preparedness, and wildlife harvest techniques. Emphasis is placed on important game species of New York. A Saturday field class will be scheduled. The successful completion of the course will qualify the student to take the New York State Hunter Education exam.

HPE 180 Sports Medicine First Year Experience (3-0) 3 credits

The FYE in Sports Medicine provides students with an opportunity to learn about the different careers in the field of sports medicine, including degree/certification/licensure requirements for each sports medicine professional. The course will also emphasize the skills and resources that students need to become intellectually confident, to successfully complete the degree program, and to transfer to a Baccalaureate program. Students will also be introduced to college survival skills, FLCC offices related to student services and academic support, and options for career planning.

HPE 181 Mime: Physical Theatre and Movement (3-0) 3 credits

In this course participants study and apply non-verbal techniques to create physical theatre performance. The course emphasizes the use and understanding of facial expressions, gestures, and pantomime. Various mime techniques, including those of Decroux and Montanaro, are taught. (Also listed as THE 181)

HPE 185 Fencing (1/2-1 1/2) 1 credit

A beginning course in Fencing with emphasis on the history of the sport, as well as introducing the student to basic foil techniques such as footwork, offensive and defensive maneuvers, and limited bouts.

HPE 187 Introduction to Physical Education and Coaching (3-0) 3 credits

This is an introductory course in Physical Education and Coaching methodology. The prospective teacher and/or coach will learn the underlying philosophies, theories and techniques for planning, organizing, and managing programs. This course will include teaching and coaching experiences, observations, lesson plans, certification requirements, and career opportunities.

HPE 190 Care and Prevention of Athletic Injuries (3-0) 3 credits

This course is designed to provide entry-level knowledge regarding the prevention and treatment of athletic injuries. This includes the recognition of signs and symptoms of injuries that occur during exercise, physical activity, or athletic participation. Students will also have the opportunity to earn a nationally recognized certification in First Aid, CPR, and AED use.

HPE 203 Advanced Martial Arts (1/2 - 1 1/2) 1 credit

An advanced martial arts class that features rigorous standards of class participation, etiquette and discipline. In addition to advanced martial arts training, class participants will be part of a martial arts demonstration team. Additional fee is required. Current enrollment or completion of any martial arts class required.

HPE 210 Defensive Tactics (1/2 - 1 1/2) 2 credits

This course is designed to provide training in the many aspects of self-defense. Course includes both aggressive and non-aggressive techniques. Course is geared to both Criminal Justice and general student population.

HPE 212 Health (3-0) 3 credits

This course is intended for any student interested in the benefits of a healthy lifestyle obtained through behavior changes. The course focuses on behaviors and lifestyle factors that affect individual well-being and disease. Emphasis is placed on how physical, emotional, social, intellectual, environmental, spiritual and occupational wellness relates to overall health. Students earn certification in child abuse identification and reporting, as well as school violence intervention and prevention.

HPE 214 Advanced First Aid, CPR and AED (3-0) 3 credits

This course will teach the student how to recognize an emergency and how to respond. The student will be prepared to make appropriate decisions regarding first aid care and how to provide care for injuries or sudden illness until professional medical help arrives. Upon completion of this course, student will be eligible for National Safety Council Certification in Advanced First Aid, CPR and AED.

HPE 215 Standard First Aid (2-0) 1 credit

This course teaches the basic First Aid skills in compliance with Emergency Cardiovascular Care

(ECC) standards covering immediate care procedures for injuries and common illness. After successful completion of this course students are eligible to take a practical exam resulting in a certificate valid for two (2) years in National Safety Council Standard First Aid. This course does not meet the PE 214 requirement and a student cannot receive credit for taking both PE 214 and PE 215.

HPE 227 Physiology of Exercise (3-2) 4 credits

This course is a requirement for all students enrolled in the AS Kinesiology and Human Performance or AS Physical Education program. In addition, this course is appropriate for students intending to transfer to pursue a degree in sports medicine, including exercise science and athletic training. This course provides students with an opportunity to deepen their understanding of the body's responses and adaptations to exercise. 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 experiments. Prerequisite: BIO 110 or BIO 171.

HPE 230 Philosophy, Principles, and Organization of Athletics in Education (3-0) 3 credits

Designed for the student who wishes to pursue a career in coaching in New York State elementary and secondary schools. Course covers philosophy and principles of athletics as integral parts of physical education and general education. Requirement for New York State coaching certification.

HPE 231 Theory and Techniques of Coaching (2-0) 2 credits

Provides experience in techniques of coaching a specific sport. Designed for persons who are preparing to meet the New York State certification requirements to coach in public schools. Via an internship, students will get hands-on experience working with an area program specific to the sport they desire to coach. Prerequisite: PE 230.

HPE 232 Health Sciences Applied to Coaching (3-0) 3 credits

This course covers topics related to the prevention and care of the athletic injuries. This course will be taken by second-year students in the AS Sports Medicine degree, as well as by any students interested in pursuing a New York State Coaching Certification. Principles of human anatomy and physiology, biomechanics, and psychology will be presented, along with liability and administrative issues in sports medicine. Students will also have the opportunity to meet the certification requirements for First Aid/CPR/AED.

HPE 242 Lifeguarding (1 1/2 - 2) 3 credits

The purpose of this course is to provide entry level lifeguard candidates with the skills and knowledge to prevent, recognize and respond to emergencies, and to provide care for injuries and sudden illnesses until advanced medical personnel arrive and take over. Prerequisites: The student must at least 15 years of age and demonstrate basic swimming skills. An additional fee is required for Red Cross Certification.

HPE 244 Water Safety Instructor (1-1) 2 credits

This advanced swimming course includes instruction in the fundamental aquatic skills, including the 6 levels of American Red Cross swimming and diving skills, Basic Water Rescue, and Learn

to Swim Parent and Child Aquatics. Emphasis is placed on the instructional techniques and methodology to prepare students to teach aquatic skills and supervise aquatic facilities and programs. Prerequisites: Must be 17 years of age and demonstrate basic swimming skills. An additional fee is required for Red Cross certification. Prerequisites: Must be 17 years of age. An additional fee is required for Red Cross Certification.

HPE 250 Wilderness Camping (1/2 - 1 1/2) 1 credit

Designed to provide an enrichment of learning through the use of outdoor experiences. This advanced course will give the student an opportunity to better understand the ecological balance and to take part in a wilderness camping environment. A half-day trip, an organizational meeting, and a three-day trip are required. A minimal fee is required.

HPE 260 Kinetics of Exercise & Sport (3-0) 3 credits

This course is a requirement for all students enrolled in the AS Kinesiology and Human Performance, and AS Physical Education and Exercise Science programs. In addition, this course is appropriate for students intending to transfer to pursue a degree in sports medicine (e.g. athletic training, exercise science, and physical/occupational therapy). Students will be introduced to simple patterns of movement and progress to the analysis of complex motor skills that comprise the biomechanical and kinesiological basis of movement in exercise and sport. Topics include the musculoskeletal and neurological components of human anatomy; isolated and combined joint actions; and basic physics principles related to movement. Prerequisite: BIO 110 or BIO 171 with a grade of 'C' or better.

HPE 270 Fitness Assessment and Program Design (2-2) 3 credits

This course will discuss various concepts of exercise training and will provide students with the opportunity to develop and implement exercise programs to a variety of diverse populations. It is a second-year course required of students in the AS Sports Medicine degree. The course will prepare students looking to take the American College of Sports Medicine's Personal Training Certification Exam, but will also provide expanded information for other sports medicine practitioners.

HPE 278-297 Intercollegiate Sports (2-0) 1 credit

Designed for the student who has athletic skills beyond the recreational level and desires to participate on an intercollegiate athletic team. Skills are refined and integrated into concepts of team play. Competitive opportunities within the conference and region are a part of this course.

HPE 278 Baseball I

HPE 279 Baseball II

HPE 280 Softball I

HPE 281 Softball II

HPE 282 Basketball I

HPE 283 Basketball II

HPE 284 Soccer I

HPE 285 Soccer II

HPE 286 Logging Sports I

HPE 287 Logging Sports II

HPE 288 Cross Country I
HPE 289 Cross Country II
HPE 292 Track and Field I
HPE 293 Track and Field II
HPE 294 Lacrosse I
HPE 295 Lacrosse II
HPE 296 Volleyball I
HPE 297 Volleyball II

Horticulture

HRT 110 Introduction to Horticulture (3-0) 3 credits

This is a hands-on course that emphasizes the numerous specialties in the horticulture field. It includes a study of plants as living organisms, the fundamentals of integrated pest management and plant growth requirements. An introduction to a variety of plant care techniques is included. This is a required beginning course in both Horticulture and Viticulture and Wine Technology degree programs.

HRT 111 Tree Culture & Maintenance (3-0) 3 credits

This course introduces individuals to the care of trees and shrubs in the landscape based on industry standards. Topics include: woody plant anatomy, tree and shrub pruning, planting and aftercare, diagnosis of weak/strong tree structure, monetary evaluation of ornamental trees, introduction to climbing, rigging and cabling, root structure, construction vulnerabilities of trees, diagnosis of damaged trees and standard and specifications. Hands-on tree analysis and fault remediation of community trees will be emphasized.

HRT 131 Floral Design (3-0) 3 credits

This is a skills-based class for students interested in the profession of floral arranging. Studies will concentrate on creating a variety of seasonal and special event arrangements, identifying specific flowers, greens and plants utilized, basic functions of florist shops, and terminology used in the profession.

HRT 135 Regulations of Cannabis Cultivation (3-0) 3 credits

This course introduces students to the legal issues related to medical cannabis production as well as Best Management Practices as they relate to regulations. Included are laws that govern cannabis cultivation and distribution as well as possession and consumption by medical patients. Students will learn New York state laws regarding cannabis cultivation as it relates to medical usage and to impacts on the state budget. Ways in which federal laws impact cultivation and recent history of cannabis laws will also be explored.

HRT 150 Herbaceous Plant Materials (2-2) 3 credits

This course integrates classroom and hands-on learning towards the identification and utilization of herbaceous annual, biennial, and perennial plants - native and non-indigenous – in commercial and residential ornamental landscapes as well as the horticulture industry at large, emphasizing plant anatomy, taxonomic identification, culture requirements, landscape value, proper

placement and care, and seasonal interest within gardens and the broader landscape. Students will develop recognition skills of commonly used herbaceous plants in Northeast gardens and planted landscapes according to their scientific classification and, with their new found academic knowledge of said plants, develop plant selection skills – assembling best-fit plants for garden/landscape application based on plant aesthetics, ecology, and sustainability. Classroom learning will be reinforced by practical experiences at local and regional botanic gardens.

HRT 151 Woody Plant Materials (2-2) 3 credits

This course integrates classroom and hands-on learning towards the identification and utilization of trees and shrubs - native and non-indigenous – in commercial and residential ornamental landscapes as well as the horticulture industry at large. This course emphasizes plant anatomy, taxonomic identification, culture requirements, landscape value, proper placement and maintenance, and seasonal interest within gardens and the broader landscape. Students will develop recognition skills of commonly used trees and shrubs in Northeast gardens and planted landscapes according to their scientific classification and, hence, will develop tree and shrub selection skills – assembling best-fit plants for garden/landscape application based on aesthetics, ecology, and sustainability. Classroom learning will be reinforced by practical experiences on the grounds of FLCC, including arboretum, and visits to local cemeteries and botanic gardens.

HRT 160 Unique Horticulture Facilities (1-1) 1 credit

This three- to four-day course provides students with field and travel experiences relative to their coursework in horticulture. This travel course is conducted in different locations in the Northeastern United States that are noted for their botanical gardens and horticulture facilities. Students will be provided with the opportunities to observe a wide variety of plant species and learn about their identification and care. Employment opportunities at the visited facilities will be explored.

HRT 201 Landscape Design I (3-0) 3 credits

An introduction to landscape design for those interested in reading, installing or drawing designs. Theory and principles of landscape design for private homes and/or commercial enterprises, techniques for understanding how to accurately place real world items into the drawing and drawn items into the landscape, presentation techniques, development of drawing skills, and visual communication of landscape designs on paper will be covered. Also included will be discussion of the integration of landscape design principles with elements of the environment that lead to sound ecological practices and the calculation of the quantity of materials needed to complete the installation of the project. Prerequisite: HRT 151.

HRT 202 Landscape Construction and Maintenance (3-0) 3 credits

This course is open to all interested individuals and emphasizes various hands-on skills of horticulture including soil preparing, planting, pruning, weeding, edging, and mulching. Tours of various horticulture sites will familiarize students on the materials and methods for construction of walls, walks and patios. Achieving a basic understanding of the region's horticultural history through field trips and hands-on learning at various non-profit institutions is included. Native plant and wholesale plant nursery visits will familiarize students to plant availability. An introduction to business operation is included.

HRT 203 Turf Management (3-0) 3 credits

This course deals with grasses and grass varieties, cultural requirements of turfgrass, establishment, mowing, dethatching, aerating, fertilizing, irrigation, and weed control.

HRT 204 Plant Propagation and Nursery Management (3-0) 3 credits

This course will familiarize the student with methods of increasing plant numbers and producing a saleable product. Topics include: growth structures, media, plant culture, sexual and asexual reproduction, grafting, and nursery management. Practical greenhouse and field experience included.

HRT 210 Landscape Design II (3-0) 3 credits

An intense, hands-on extension of Landscape Design I that focuses on the development of professional design skills for the residential and commercial landscape. The student will develop designs, time, materials and labor cost estimates and presentation skills for a variety of real-world design projects. First hand experience using professional level techniques will be gained during this class. Required field trips to landscape sites will be held during class hours.

Prerequisite: HRT 201.

HRT 220 Field Experiences in Horticulture (2-0) 2 credits

This is a capstone course to both the Horticulture degree and certificate. Students will combine the following: several short classroom sessions with at least fifty (50) hours of individual experience in the field, and the horticulture exit exam. Classroom topics will include review in major subject categories, career opportunities, tools for successful achievement of employment, and professional certifications. Field experience opportunities can be suggested by faculty or by the student and will vary with student interest. The horticulture exit exam is both written and walking and includes identification of plants, pests, diseases, IPM, soils, and tools common to horticulture. Prerequisite: AAS Horticulture: Successful completion of AGR 100 and twelve (12) credit hours of Horticulture courses. Prerequisite: Certificate Horticulture: Successful completion of AGR 100 and nine (9) credit hours of Horticulture courses.

HRT 221 Horticulture Topics I (1-0) 1 credit

This course is designed to provide students with specialization in an area related to their occupational or educational interest, and to provide students the opportunity to become more familiar with horticulture practices. Topics typically involve a field component and may be held as a residential course at the Muller Field Station or the East Hill Campus.

HRT 222 Horticulture Topics II (2-0) 2 credits

This course is designed to provide students with specialization in an area related to their occupational or educational interest and to provide students the opportunity to become more familiar with horticulture practices. Topics typically involve a field component and may be held as a residential course at the Muller Field Station or the East Hill campus.

HRT 223 Horticulture Topics III (3-0) 3 credits

This course is designed to provide students with specialization in an area related to their occupational or educational interest and to provide students the opportunity to become more

familiar with horticulture practices. Topics typically involve a field component and may be held as a residential course at the Muller Field Station or the East Hill campus.

HRT 230 Certified Applicator Training (3-0) 3 credits

This is a preparatory class for students interested in becoming New York State Department of Environmental Conservation (NYSDEC) licensed pesticide applicators. Studies will concentrate on preparing the student for testing to become Commercial Pesticide Applicators in the Category 3a: Ornamentals and Turf. This course presents information regarding proper procedures for managing pests in the landscape and acts as the 30-hr course required by the NYS DEC prior to testing. Students will be given the opportunity to take the state examination for licensure.

Prerequisite: HRT 110.

HRT 235 Cannabis: Biology to Industrial Application (3-0) 3 credits

This course will survey the history of cannabis (*Cannabis sativa*) as well as its biology, breeding, chemistry, pharmacology, and downstream uses from biofuel and pulp feedstocks to medicinal application. Upon completion of the course, students will have developed in-depth knowledge of cannabis and, to either a scientist or layperson, be able to articulate present perspectives on its production and utility in human society and agriculture. Prerequisite: HRT 110. Co-requisite: BIO 251.

HRT 236 Cannabis Cultivation (3-0) 3 credits

This course will familiarize students with the growth requirements of cannabis. Topics include: cannabis lifecycle, propagation, growing techniques, environmental requirements for proper growth, pest pressure and management, and harvest techniques. Practical greenhouse experience included.

HRT 260 Applied Plant Pathology with Integrated Pest Management (3-2-0) 4 credits

A practical and hands-on course investigating the nature, causes, diagnoses, and management options of plant health problems. Interactions between the environment, disease causing organisms, and the plant will be considered as related to integrated pest management (IPM) controls. Students will be trained to identify common plant diseases including environmentally caused disorders. Consideration of site management and corrective horticultural practices as related to plant health will be included. Students will further investigate each topic utilizing laboratory skills and techniques. Field trips are included in the course. Prerequisite: BIO 121 or BIO 125 or BIO 251.

HRT 280 Field Entomology with Integrated Pest Management (4-0) 4 credits

A practical investigation of insect structure and function, ecology, behavior, and life history, as well as strategies of integrated pest management (IPM). The class will discuss various pesticides, modes of action and toxicity, environmental impact and possible effects on the applicator. Students will report on current topics such as vectors of plant and animal diseases, and the challenges to pollinator populations. Training in identification, monitoring, sampling methods, biological control and conventional crop protection approaches prepare the student for professional opportunities. Prerequisite: BIO 121 or BIO 125

Humanities

HUM 220 Study Abroad in the French-speaking World (3-0) 3 credits

The purpose of this course is to provide students with a short-term cultural travel experience designed to prepare them for meaningful participation in today's global society. This study abroad experience is conducted in different locations throughout the French-speaking world. The course will emphasize developing an understanding and appreciation of the host country culture. Students will learn simple French vocabulary to facilitate their interactions with the native population in the host country, and will also have the opportunity to tour various sites of interest. Students will be housed in family homestay accommodations for the duration of the travel experience (to the extent possible). Open to all students, regardless of academic program. Students must complete an application form, provide two (2) letters of recommendation, and receive permission of instructor. Previous study of French is recommended, but not required.

HUM 225 Study Abroad in the Spanish-speaking World (3-0) 3 credits

The purpose of this course is to provide students with a short-term cultural travel experience designed to prepare them for meaningful participation in today's global society. This study abroad experience is conducted in different locations throughout the Spanish-speaking world. The course will emphasize developing an understanding and appreciation of the host country culture. Students will learn simple Spanish vocabulary to facilitate their interactions with the native population in the host country, and will also have the opportunity to tour various sites of interest. Students will be housed in family homestay accommodations for the duration of the travel experience (to the extent possible). Open to all students, regardless of academic program. Students must complete an application form, provide two (2) letters of recommendation, and receive permission of instructor. Previous study of Spanish is recommended, but not required.

Human Services

HUS 102 Human Services in Contemporary America (3-0) 3 credits

An introduction to the contemporary Human Service field. It includes a philosophical and theoretical orientation to Human Services; exploration of agency structure, personnel and services and an agency visitation. Professional and personal human services competencies, ethics and the law are also examined.

HUS 103 Case Management (3-0) 3 credits

This course focuses on the case management process. Students develop a basic understanding of the primary concepts and process of case management. Attention is paid to documentation, the interview, assessment, developing a service plan, managing information, networking, monitoring services, referral and successful termination and discharge. Prerequisite: HUS 102, Co-requisite: HUS 150.

HUS 150 Interviewing and Counseling (3-0) 3 credits

A survey of basic counseling techniques, including an overview of the various schools of

counseling—the dynamics of communication, interviewing, resolving resistances by dealing with case materials, and role playing.

HUS 204 Field Experience I (4-0) 4 credits

Field Experience with individual and group supervision. The student will spend six –eight hours per week in direct agency service under supervision, for a total of ninety hours during the semester and class time in small group supervision. Emphasis will be on developing and strengthening human service competencies such as; assessment procedures, case management, interviewing, utilizing resources and networking. Prerequisites: HUS 102, HUS 150 and permission of instructor. Co-requisite: HUS 103.

HUS 205 Field Experience II (4-0) 4 credits

Field Experience with individual and group supervision. The student will spend six –eight hours per week in direct agency service under supervision, for a total of ninety hours during the semester and class time in small group supervision. Field Experience II affords students a second placement with possibilities of exposure to a different area of human services or a similar, more intense experience. It also includes a major research project. Prerequisites: HUS 204 and permission of instructor.

Mathematics

MAT 093 Foundations of Quantitative Literacy (1-0) 1 imputed credit

This course is taken in conjunction with MAT 135, Mathematics in Context, and is designed to support student success in MAT 135 by supplementing prerequisite knowledge. An activity based approach is used to explore proportional, geometric, and algebraic reasoning. Key mathematical concepts are studied within a variety of real-world contexts. Co-requisite: MAT 135. This course is for students with a Level 0 mathematics placement who are also registered for the co-requisite course, MAT 135 Mathematics in Context. This course carries imputed (financial aid) credit. It does not fulfill FLCC's Mathematics or general elective requirements. Course is graded on a Satisfactory or Unsatisfactory basis.

MAT 097 Algebra and Introduction to Functions (4-0) 4 imputed credits

A transitional course in mathematics designed to provide the student with a solid algebraic background for further studies in mathematics or the sciences. In addition to reviewing algebraic skills for simplifying expressions and solving equations, this course provides an introduction to the concept of a function. The family of linear functions is introduced. The use of realistic applications and modeling with linear functions is an essential component of this course. Prerequisite: Placement into Math Level 0 or 1 This course carries imputed (financial aid) credit. It does not fulfill FLCC's Mathematics or general elective requirements.

MAT 100 Mathematics Seminar (1-0) 1 credit

This course exposes students to the wide variety of mathematics that exists beyond what is traditionally taught in mathematics classes. Specific topics discussed each semester will be based on interest and abilities of the students in the class and will vary each semester. This course is oriented towards students interested in studying mathematics, but the topics will be accessible for

all students interested in learning more about mathematics. This class may be taken for credit more than once since the topics will change each semester.

MAT 101 Mathematics for Liberal Arts (3-0) 3 credits

This course is intended for the liberal arts student. The purpose of this course is to share the excitement and enjoyment of contemporary mathematical thinking. The course answers the question, "What do mathematicians do, practice, or believe in?" The use of mathematics in areas of business and industry, politics, networking and telecommunication will be studied with the intent to develop reasoning ability, logical thinking, critical reading, and written and oral communication. The topics are selected so that they are self-contained. This course carries SUNY General Education Mathematics credit.

MAT 110 Mathematics of Money (3-0) 3 credits

This course is directed toward the student who wishes to study mathematics with business and financial applications. The philosophy of the department is that this course is a mathematics course using business-related topics to enhance the student's abilities in and appreciation for mathematics. The course topics are chosen so as to be of interest to a broad range of students. Among the topics chosen are simple interest, simple discount, compound interest, present and future value of annuities, spreadsheets and other specific financial applications. This course carries SUNY General Education Mathematics credit.

MAT 115 Mathematics for Health Care Professionals (1-0) 1 credit

With the goal of improving safety in medication administration, Mathematics for Health Care Professionals is designed to expose students who are pursuing degrees leading to a career in health care to all pertinent aspects of medical dosage calculations. Using dimensional analysis as the primary computational tool, the course will proceed from dosage calculations involving tablets and capsules to the more complex calculations involving therapeutic safe dose ranges and intravenous infusions.(Satisfactory or Unsatisfactory grade.)

MAT 121 Introductory Statistics I (3-0) 3 credits

A first course in statistics designed to introduce descriptive statistics of one and two variables, and probability; and to assimilate those concepts into an understanding of probability distributions. Topics include measures of central tendency, variability, graphical displays, linear correlation, and regression, dependent and independent probability, discrete and continuous probability distributions. The course will emphasize computer or calculator use (graphing calculator, Minitab, Excel, StatCrunch, etc.) to obtain results. Scientific calculator required. This course carries SUNY General Education Mathematics credit.

MAT 122 Introductory Statistics II (3-0) 3 credits

A continuation of Introductory Statistics I (MAT 121) with an introduction to statistical research. Topics of statistical inference included are hypothesis testing and estimation for means, proportions, and variances; determination of sample size; uses of the Chi-square distribution; analysis of variance; and statistical research. The course will emphasize computer or calculator use (graphing calculator, Minitab, Excel, StatCrunch, etc.) to obtain results. Prerequisite: MAT 121. This course carries SUNY General Education Mathematics credit.

MAT 135 Mathematics in Context (3-0) 3 credits

This is a course centered on mathematical and statistical reasoning important for decision-making in work and everyday life. It integrates quantitative literacy with percentages, probability, mathematical modeling, and statistical thinking. Concepts are investigated with hands-on activities using important medical, environmental, and financial decision examples. Communication of mathematics, critical thinking, problem-solving, and utilizing appropriate technologies will also be developed in this course. Prerequisite: Placement into Math Level 1. Co-requisite: MAT 093 for Placement into Math Level 0. This course carries SUNY General Education Mathematics credit.

MAT 145 Survey of Functions I (4-0) 3 credits

This course is an introduction to the study of families of functions. Power, piecewise, quadratic, and polynomial functions are covered extensively, along with an introduction to exponential functions. Right and non-right triangle trigonometry is also studied in depth. The use of realistic applications and modeling with these families of functions are essential elements of this course. Emphasis on multiple methods of solving equations (algebraic, graphic, and numeric) is included as are multiple representations (algebraic, graphic, numeric, and verbal) of mathematical information. Prerequisite: MAT 097 or Placement into Math Level 2. This course carries SUNY General Education Mathematics credit.

MAT 152 Pre-Calculus (Survey of Functions II) (3-1) 3 credits

This course is a continuation of the study of families of functions from those included in MAT 145, Survey of Functions I. Exponential, logarithmic, trigonometric/sinusoidal, and rational functions are analyzed in depth. Embedded within the study of each of these families are composition, decomposition, and the creation of inverse functions. An introduction to limit notation is used to analyze long range behavior, horizontal and vertical asymptotes, as well as removable discontinuities. The use of realistic applications and modeling with these families of functions is an essential element of this course. Emphasis on multiple methods of solving equations (algebraic, graphic, and numeric) is included as are multiple representations (algebraic, graphic, numeric, and verbal) of mathematical information. Prerequisite: MAT 145 or Placement into Math Level 3 This course carries SUNY General Education Mathematics credit.

MAT 160 Introduction to Discrete Mathematics (4-0) 4 credits

An introduction to many of the principal topics of discrete mathematics, including number systems, sets, logic, relations, combinatorial methods, graph theory, regular sets, vectors and matrices. Prerequisite: MAT 152 This course carries SUNY General Education Mathematics credit.

MAT 165 Introduction to Data Science (4-0) 3 credits

This course covers techniques for working with data, including getting and cleaning data, exploratory data analysis, data visualization, and statistical modeling and prediction. Students will learn how to ask good questions, apply data to practical problems, and communicate data analytic results. Statistical computing is integrated into the course. Prerequisite: Math Level 3 Placement or take MAT-145; minimum grade C-. This course carries SUNY General Education Mathematics credit.

MAT 180 Mathematics for Elementary School Teachers I (3-0) 3 credits

This course is the first of a two-semester sequence designed for prospective elementary education teachers. The course presentation and material will conform to the NCTM Standards and therefore will present mathematics in the context of problem solving, communication (both oral and written), reasoning, including direct and indirect proofs, and mathematical connections. Students will explore mathematical concepts and theories underlying the topics including: set theory, numeration and different number systems, operations on integers, rational and irrational numbers, prime and composite numbers, divisibility and modular arithmetic.

MAT 200 Statistics (3-0) 3 credits

This statistics course is designed for an experienced mathematics student. It is a one semester course covering descriptive and inferential statistics. Topics included are measures of center; measures of dispersion; hypothesis testing; estimations for population means, proportions, and variance; determination of sample size; uses of the Chi-square distribution; analysis of variance; linear correlation and linear regression; and statistical research. The course will emphasize computer or calculator use (graphing calculator, Minitab, Excel, or the like). MAT 145 College Algebra or placement into Math Level 3. This course carries SUNY General Education Mathematics credit.

MAT 220 Discrete Mathematics for Computing (3-0) 3 credits

This course introduces students to ideas and techniques from mathematics that are widely used in computer science. Topics include the fundamentals of logic (propositional and predicate calculus), set theory, relations, recursive structures, and combinatorics. This course will increase students' mathematical sophistication and ability to handle abstract problems. Prerequisite: MAT 271. This course carries SUNY General Education Mathematics credit.

MAT 271 Calculus I (4-0) 4 credits

A first course in Calculus focusing on the mathematics of changing rates. The derivative of polynomial and transcendental functions is investigated from a numerical, graphical, and algebraic approach. Applications for the use of derivatives are also explored. Introduction to the definite integral and the Fundamental Theorem of Calculus is included in this course. Graphing calculator required. Prerequisites: MAT 152 or Placement into Math Level 4. This course carries SUNY General Education Mathematics credit.

MAT 272 Calculus II (4-0) 4 credits

A continuation of the topics studied in Calculus I, in particular anti-differentiation and integration of functions and their applications. Also included are various techniques of integration, improper integrals, indeterminate limit forms, infinite series, Taylor polynomials, power series, and an introduction to differential equations. Prerequisite: MAT 271. Graphing calculator required; see department chair for specific model. This course carries SUNY General Education Mathematics credit.

MAT 273 Calculus III (4-0) 4 credits

The calculus of multivariable functions and vectors. Topics include partial differentiation, multiple integrals, optimization, multiple integration, line integrals and vector fields. Prerequisite: MAT 272. Graphing calculator required; see department chair for specific model.

MAT 274 Differential Equations (4-0) 4 credits

This course is an introductory survey of ordinary differential equations. First order differential equations and methods for obtaining solutions are investigated. Methods include integration, variation of parameters, and integrating factors. These methods are generalized for second order differential equations. Additional methods include numerical approximation, Laplace Transforms, and power series. Prerequisite: MAT 272.

MAT 276 Linear Algebra (3-0) 3 credits

A survey course of the study of elementary linear algebra through the study of finite dimensional vector spaces, linear transformations and matrices. Topics covered include vector and matrix operations, determinants, systems of linear equations, linear independence, eigenvalues and eigenvectors. Prerequisite: MAT 271.

MAT 280 Mathematics for Elementary School Teachers II (3-0) 3 credits

This course is the second of a two-semester sequence designed for prospective elementary education teachers. The course presentation and material will conform to the National Council of Teachers of Mathematics (NCTM) Standards and therefore will present mathematics in the context of problem solving, communication, reasoning and proof, representations, and connections. Students will explore mathematical concepts and theories underlying topics which include: proportional reasoning, statistics, probability, and geometry in terms of shape, transformations, and measurement. Modeling a positive attitude toward mathematics is emphasized as this is important for future educators. Prerequisite: MAT 180. This course carries SUNY General Education Mathematics credit.

Mechanical Technology

MET 101 Material Science (3-0) 3 credits

This course general introduction to engineering materials used in design and manufacturing. Topics include mechanical, physical, and chemical properties of ferrous and non-ferrous metals, plastics, ceramics, glass, and composites. The course will cover material sources, formation and production. Emphasis is on material selection for mechanical design purposes based on material properties and manufacturability. The course will cover different aspects of material testing and field trips to local material testing labs as permitted.

MET 104 Manufacturing Processes (2-2) 3 credits

The basic equipment, processes and services required to produce products are studied. This course is designed to give the student the knowledge and vocabulary to comprehend the complex and inter-related design and manufacturing functions that must be accomplished to produce the end product. The processes covered include the making metal casting, plastics production, hot and cold forming, machining, fastening, non-traditional machining, grinding, etc. Equipment covered in the lab include: lathes, grinders, milling machines, band saws, drill presses, precision measurement devices, basic CNC machine operations and programming will be introduced. Safety and proper manufacturing procedures will be emphasized. Statistical quality control concepts will be introduced.

MET 106 Engineering Drawing II (1-5) 3 credits

Advanced techniques for creating, viewing, and plotting 2D and 3D CAD drawings will be presented. Lectures, demonstrations, and labs in a variety of applications will enhance the student's CAD ability and professional development. Topics include attributes; drawing views, assembly drawings, threads and fasteners, dimensioning, tolerances, bearings and shafts, and the design process. Students will use parametric solid modeling software. Prerequisite: ESC 105

MET 115 Technology Freshman Seminar (0-2) 1 credit

Today's engineering and technology fields and the multifaceted role of the technologist will be explored. Orientation to student services, academic policies, stress management, science study skills, time management, and other college survival skills will be presented. Additional topics of study include applied mathematics, use of scientific calculators, teamwork and problem solving skills in the classroom and laboratory, and an introduction to the physical units and dimensions encountered in the technologies.

MET 205 Engineering Drawing III (1-5) 3 credits

A continuation of Engineering Drawing II. Advanced topics include geometric positioning and tolerances as it relates to symbols, terms, datums, modifiers, geometric characteristics, true position and English/Metric units; and computer numerically controlled (CNC) manufacturing of student's CAD - documented parts executed via post processor software. The course will include an advanced design project Prerequisite: MET 106.

MET 216 Statics and Strength of Materials (2-3) 3 credits

Study of force systems, equilibrium; two and three force members, vectors, analytical methods of solution, friction, moments of inertia of areas. Study of strength of materials concepts: stress, strain, torsional stress and strain, shear and moment in beams, load, shear, and moment diagrams. Prerequisite: PHY 118 and MAT 145 or placement into Math Level 3 or higher.

MET 217 Dynamics and Strength of Materials (2-3) 3 credits

Continuation of Strength of Materials topics. Deflection of beams (statically determinate and indeterminate), combined load, welded, bolted and riveted connections, and columns. Dynamics topics include kinematics of rigid bodies, work, energy and power, impulse and momentum. Prerequisite: MET 216.

MET 220 Machine Design I (2-3) 3 credits

Introduction to the analytic design of machine elements. Study of kinematics of mechanical linkages, cams, gears, gear trains. Ball and roller bearings. Belt and chain drives. Topics include belt and chain drives, ball and roller bearings, power transmission shafting, gears and gear trains. Prerequisite: PHY 118 and MAT 145 or placement into Math Level 3 or higher. Co-requisite: MET 216.

MET 221 Machine Design II (2-3) 3 credits

Advance study in the design of machine elements. Topics include power transmission shafting, mechanical clutches and brakes, springs, welded and riveted connections, power screws, and working stresses Prerequisite: MET 220; Co-requisite: MET 217.

MET 230 Jig & Fixture Design (1-4) 3 credits

This courses will provide the students with the necessary skills needed to design manufacturing and testing support equipment. The course will discuss theory and provide practice in a series of design assignments. Prerequisites: MET 101, MET 104, MET 205

MET 232 Optical Mounting Design (1-4) 3 credits

This course explores principles of optical elements such as lens, prisms and mirrors, the manufacturing processes involved in producing the optical elements and the design criteria and constraints in mounting and testing single optical elements and optical systems. Prerequisite: MET 106. Co-requisite: PHY 119

MET 234 Principles of Renewable Energy (1-4) 3 credits

This course will explore and discuss the principals of renewable energy on various scales, including the regional and global context, with an eye towards the developed and developing nations. The student will study how different renewable power can be utilized in a wide variety of settings and limitations imposed. This course is intended for second year students in Mechanical Technology, Instrumentation & Controls Technology and Engineering Science. With the growing application of renewable energy, students interested in this business sector will have a solid foundation in renewable energy. Field trips to wind turbine, solar panel and geothermal installations will be conducted when viable. Prerequisite: PHY 119 or PHY 152

MET 250 Technology Co-op 3-6 credits

The co-op program enables the technology student to supplement academic studies with work experience. The student will be employed a minimum of 135 work hours (3 credits) or 270 work hours (6 credits) per semester (either full-time or part-time employment). Enrollment is limited to technology students. Prerequisite: Faculty approval.

MET 255 Mechanical Technology Capstone Project (1-4) 3 credits

This course is the culmination of the previous and concurrent course required for the Mechanical Technology Program. Students will be assigned a problem and asked to provide a solution. Most of the necessary information will be provided but some may require the students to do some research, such as a search on the internet. The project will incorporate drawing/design, analysis and manufacturing knowledge. The students may be asked to produce a scaled model prototype. The students will present their results in a short presentation to invited faculty, Advisory Board members and other invited guests. Prerequisite: MET 104, MET 205, MAT 152, PHY 119. Co-requisite: MET 221.

Music

MUS 100 Music Appreciation (3-0) 3 credits

A course for the general interest student, the intent of which is to heighten the student's awareness of the place of music in our culture and enhance his or her enjoyment of the art form itself. This course carries SUNY General Education The Arts credit.

MUS 105 Basic Musicianship (3-0) 3 credits

Major course topics include a study of scales, intervals, key signatures, meters, rhythmic reading, and chords. This course is for students with little or no background in music performance or theory. This course carries SUNY General Education The Arts credit.

MUS 106 Music Theory I (3-0) 3 credits

An introductory course designed for the general student and for individuals majoring in Music or Music Recording. Students learn the fundamentals of harmony, music reading, part-writing in root position, simple chorale analysis, keyboard skills, and sight singing. Attendance at one hour of keyboard lab weekly is required in addition to the lectures. Prerequisite: A score of 13 or higher on the Theory Placement Exam or MUS 105. Co-requisite: MUS 106L. This course carries SUNY General Education Humanities credit.

MUS 106L Music Theory I Lab (0-2) 1 credit

An introductory course designed for individuals majoring in Music or Music Recording to amplify the material covered in the lecture portion. Course specific skills developed include sight-singing and ear training. Co-requisite: MUS 106. This course carries SUNY General Education Humanities credit.

MUS 107 Music Theory II (3-0) 3 credits

This course is a continuation of Music Theory I. Concepts include a continuation of part-writing triads, a study of chord and non-chord tone function in tonal system, analyses of chorales and easy keyboard literature of the 18th and 19th centuries. Attendance at one hour of keyboard lab weekly is required in addition to the lectures. Prerequisite: MUS 106, Co-requisite: MUS 107L.

MUS 107L Music Theory II Lab (0-2) 1 credit

This course is a continuation of Music Theory Aural Lab I, designed for individuals majoring in Music and Music Recording. Course content amplifies the material covered in the lecture portion. Course specific skills developed include sight-singing and ear training. Prerequisite: MUS 106L. Co-requisite: MUS 107.

MUS 108 Class Piano (3-0) 3 credits

This course provides an introduction to keyboard performance in a group setting for students with little or no prior background. It is especially appropriate for non-piano majors who must gain basic keyboard proficiency. The course emphasizes sight-reading, transposition, harmonization and improvisation, as well as exposing the student to solo and ensemble repertory from a number of styles.

MUS 109 Vocal Jazz Ensemble (3-0) 1 credit

A select group of students chosen annually through audition and with the approval of instructor, who perform jazz and pop standards in concerts each semester. Prerequisite: Audition and

approval of instructor.

MUS 111 Master Composers I (3-0) 3 credits

A study of canonic pieces of Western Music Literature as well as critical issues involved in the assertion of canonicity or “greatness”. Students will consider a number of genres including art songs, piano music, and electronic music. This course carries SUNY General Education The Arts credit.

MUS 117 Master Composers II (3-0) 3 credits

The complimentary study (with MUS 111) of canonic pieces of Western Music Literature as well as critical issues involved in the assertion of canonicity or “greatness”. Students will consider a number of genres including concerti, opera, and symphony.

MUS 118 Guitar Ensemble (0-3) 1 credit

Members rehearse and perform guitar instrumental arrangements.

MUS 119 Percussion Ensemble (0-3) 1 credit

Members rehearse and perform percussion instrumental arrangements

MUS 120 Finger Lakes Chorale (0-3) 1 credit

A mixed chorus of about seventy singers from both the College and community; performs large choral works from all principal style periods in concerts each semester.

MUS 125 Finger Lakes Camerata (0-3) 1 credit

A select group of about twenty-four community members and students chosen annually through audition, who perform a cappella works and music for chamber chorus in concerts each semester.

MUS 126 College Singers (0-3) 1 credit

College Singers is a course offered to students who have at least one semester of chorale ensemble experience. It is designed to develop students' overall musical skills as well as their ability to successfully rehearse and perform wide variety of choral literature in concerts at the end of each semester.

MUS 127 Jazz Ensemble (0-3) 1 credit

Members rehearse and perform contemporary jazz/rock arrangements and originals. Instrumental ability and some band experience are required.

MUS 129 Performance Class I (0-3) 1 credit

Members rehearse and perform instrumental arrangements. Prerequisite: MUS 106 or higher.

MUS 131 131-135, 137, 146, 159, 160, 161, 163-165, 167-169, Applied Music (1-0) 1 credit

Instruction in a particular instrument or voice. All students who take applied music as an elective pay for the lessons in addition to the tuition charge. A minimum of twelve forty-five minute lessons is required per semester for a single academic credit. Students are required to play a performance examination at the end of each term. These courses carry SUNY General Education The Arts credit.

MUS 145 Chamber Wind Ensemble (0-3) 1 credit

Rehearsal and performance of chamber music written for a combination of brass and woodwind instruments. This course carries SUNY General Education The Arts credit.

MUS 155 Rehearsal and Performance (3-3) 3 credits

An intensive course in musical theatre production. Students will prepare a musical or straight play for public performance. Students are required to participate in the load-in and strike processes of the show. This course is open to all students including high school juniors and seniors as well as members of the community. No pre-requisite. May be taken more than once for credit. (Also listed as THE 105)

MUS 156 Jazz History (3-0) 3 credits

A study of the history of jazz, from the late 19th century to present day. Major trends will be explored, including dixieland, swing, bebop, cool, hard bop, fusion, free and contemporary. Topics will also include contributions by important musicians, changes in technology, and societal trends and their effect on jazz. This course carries SUNY General Education The Arts credit.

MUS 157 Music Notation Using Sibelius (3-0) 3 credits

This course is an introduction to AVID Sibelius music notation software employing Apple Mac computers. Students will apply music theory to Sibelius software via hands-on projects in music composition, notation, scoring, MIDI, rhythm, and note entry. Sample course topics include Mac computer literacy, music arranging, and composing for film. Prerequisite: A score of 13 or higher on the Music Theory Placement Exam or MUS 105.

MUS 170 Techniques of Audio Recording I (3-0) 3 credits

A study of mixer formats, patch bays, decibels, acoustics, and microphones. Emphasis is on gaining practical knowledge through working with recording equipment. Consideration is also given to production concepts and aesthetics. Students will work on both studio and field recording projects. Co-requisite: MUS 106.

MUS 176 Music Business (3-0) 3 credits

Consideration of the business aspects of each step in the marketing of music, music services, and music products. The student learns about recording studio operation, record companies, record distribution, merchandising, promotion, administration, the media, and careers in music.

MUS 177 Introduction to Music Business (1-0) 1 credit

This course serves as an introduction to the dynamics of the music industry including intellectual property concerns, distribution and marketing, and how technical innovation affects the current business model. ENG 101 recommended.

MUS 178 Music Licensing and Revenue Streams (1-0) 1 credit

This course explores the various revenue streams within the music industry for copyright holders, as well as performers/artists and the surrounding actors including concert promoters and venues.

MUS 179 Career Paths in the Music Industry (1-0) 1 credit

This course highlights the opportunities that exist in the music industry. Students examine the people that make the music industry work, the many different career paths that are available, as well as resources for starting a business.

MUS 183 History of Rock Music (3-0) 3 credits

This is a survey course that traces the history of British and American rock music. Beginning with its roots in jazz, rhythm and blues, and country and western music, the course traces the development of Rock to the present day and examines the cultural, economic, and social contexts of the music. We will study the music of Chuck Berry, the Beatles, the Rolling Stones, Jimi Hendrix, Led Zeppelin, Metallica, Nirvana, and many more artists. This course carries SUNY General Education The Arts credit.

MUS 206 Music Theory III (3-0) 3 credits

MUS 206 continues the study of tonal harmony and voice leading from MUS 107. MUS 206 also includes a survey of common chromatic chords, modulation and modal inflection as well as basic formal types and fundamental procedures in fugue. Attendance at one hour of keyboard lab weekly is required in addition to the lectures. Pre-Requisite: MUS 107; Co-Requisite: MUS 206L.

MUS 206L Music Theory III Lab (0-2) 1 credit

This course is a continuation of Music Theory Aural Lab II, designed for individuals majoring in Music and Music Recording. Course content amplifies the material covered in the lecture portion. Course specific skills developed include sight-singing and ear training. Co-requisite: MUS 206.

MUS 207 Music Theory IV (3-0) 3 credits

Music 207 is the continued study (from Music 206) of harmony and voice leading (particularly chromatic harmony) and the continued consideration of basic formal idioms in more complex applications. Music 207 also surveys mainstream 20th Century compositional techniques. Attendance at one hour of keyboard lab weekly is required in addition to the lectures. Pre-Requisite: MUS 206; Co-Requisite: MUS 207L.

MUS 207L Music Theory IV Lab (0-2) 1 credit

This course is a continuation of Music Theory Aural Lab III, designed for individuals majoring in Music and Music Recording. Course content amplifies the material covered in the lecture portion. Course specific skills developed include sight-singing and ear training. Co-requisite: MUS 207.

MUS 215 Music History I: Medieval to Baroque (3-0) 3 credits

A study of the evolution of music from Gregorian chant and music of the troubadours through the writings of J.S. Bach. Students will engage with the material in a variety of ways, such as composing. Prerequisite: ENG 101 and MUS 107

MUS 216 Music History II: Classic to Modern (3-0) 3 credits

The history of music from the rise of sonata form in the works of Haydn and Mozart to the twelve-tone, aleatoric, and electronic music of the present. Students will engage with the material in a variety of ways such as listening, researching, and writing. Prerequisite: ENG 101 and MUS

107.

MUS 229 Class Performance II (3-0) 1 credit

Members rehearse and perform instrumental arrangements culminating in a performance at the end of the semester. Prerequisite: MUS 106 or higher.

MUS 250 Audio Recording Practicum/Internship 3 credits

Students are provided with practical experiences on commercial projects in commercial recording studios, live recording and sound reinforcement companies, and/or live recording and sound reinforcement venues. Prerequisites: MUS 170, MUS 176, MUS 270, MUS 271 and permission of instructor.

MUS 270 Techniques of Audio Recording II (3-0) 3 credits

This is a continuation of audio one. Emphasis will be on gaining experience in the studio thru a variety of student projects. Students will study multi track theory, aural analysis, microphones, effects and sequencing. Prerequisite: MUS 170, Co-requisite: MUS 107.

MUS 271 Techniques of Audio Recording III (3-0) 3 credits

This course covers all the material acquired in the two prerequisite courses in greater detail, and discusses how to use those concepts within stylistic norms. Throughout the course we will emphasize “ear training” and the art of listening, in conjunction with mixing techniques and practice. Prerequisite: MUS 270, Co-requisite: MUS 206.

MUS 272 Techniques of Audio Recording IV (3-0) 3 credits

This course serves as a capstone experience for students in the Music Recording Program. Students will be expected to function as a professional recording engineer with clients, booking sessions, meeting deadlines and seeking possible album distribution. Prerequisite: MUS 271, Co-requisite: MUS 207.

MUS 290 Sound Reinforcement and Live Recording Techniques (3-1) 3 credits

This course provides an introduction to sound reinforcement systems and practical live recording applications. Emphasis is placed on sound system components, design, and function with a hands-on approach to set up, maintenance, troubleshooting, operation, analysis, and safety. Other course topics will include a study of a variety of recording formats as well as digital multi-track equipment and operation leading to individual on-location recording projects. Some basic tools required. Prerequisites: MUS 270.

Nutrition

NS 115 Introduction to Nutrition (3-0) 3 credits

An introduction to the field of human nutrition and food focused on the mutual relationships between humans and their biological and physical environment. This course includes the study of human nutritional needs; problems encountered in providing food to meet nutritional needs; the relationships among human physiological needs, sociocultural systems, and food; and the significance of these relationships to the attainment of health. This course carries SUNY General Education Natural Sciences credit.

NS 210 Nutrition in the Life Cycle (3-0) 3 credits

This course stresses the practical application of the various nutritional concepts from pregnancy and birth throughout the life span into old age (pregnancy, infancy, children, adolescents, adults, and elderly adults). Strategies for handling nutrition related problems, obesity issues, eating disorders, the use of nutritional supplements, sports nutrition, gender differences, physical activity, growth, food guides and standards and label reading are among the subjects investigated. Prerequisite: NS 115 This course carries SUNY General Education Natural Sciences credit.

NS 220 Sports Nutrition (3-0) 3 credits

This course presents the scientific basis for sports nutrition emphasizing the energy needs of activity and effect of dietary intake on performance. Special dietary requirements of specific sports and athletic activities will be taught. Topics will also include dietary ergogenic aids, nutritional supplements, weight control, dietary fads and myths, interaction of alcohol, caffeine and tobacco on an athlete's nutrition status. The class will also stress information for competitive athletes and people of all ages wishing to incorporate nutrition into a physically active lifestyle. Prerequisite: NS 115 This course carries SUNY General Education Natural Sciences credit.

Nursing

NUR 100 Fundamentals of Nursing (4-6) 6 credits

This is an introductory course in fundamental principles of nursing addressing basic needs as identified by Maslow and related to Erikson's stages of development. Nursing concepts align with the FLCC Nursing Department's Philosophy and Organizing Framework as well as the National League for Nursing (NLN) Competencies and Outcomes. Experiences in the college laboratory and clinical facilities support theoretical content. Note: Clinical meets for 9 weeks. Be prepared for lecture on campus during the time when clinical does not meet. Co-requisite: ENG 101 and BIO 171 to be completed with a grade of "C" or better and MAT 115 to be completed with a grade of "S" (Satisfactory)

NUR 101 Nursing Care of the Adult and Child I (5-9) 8 credits

This is the first of a two-semester sequence presenting commonly occurring health problems and their impact on Erikson's developmental stages and Maslow's needs. Nursing concepts align with the FLCC Nursing Department's Philosophy and Organizing Framework as well as the National League for Nursing (NLN) Competencies and Outcomes. Major units of study include transitions in health care, commonalities in the illness experience, coping with problems of oxygenation, nutrition, metabolism, elimination, and motor activity. Experiences in the college laboratory and clinical facilities support theoretical content. Note: Clinical meets for 11 weeks. Be prepared for lecture on campus during time when clinical does not meet. Prerequisite: Successful challenge of NUR 100 or completion of NUR 100 with a grade of "C+" or better and BIO 171 with a grade of "C" or better. Co-requisite: BIO 172 to be completed with a grade of "C" or better.

NUR 105 Nursing Process (1 week -15 hours) (1-0) 1 credit

This course is an overview of the Nursing Process aimed at guiding the learner in the use of the process in planning care. Each step – assessment, diagnosis, planning, intervention, and

evaluation – will be analyzed in relation to the Nursing Care Plan. Special focus will be applied to the process of diagnosis, i.e., the identification and description of client problems amenable to nursing care. Goal setting and the process of writing care plans will also be considered as major topics. (Satisfactory or Unsatisfactory grade.) Prerequisite: NUR 100 or an L.P.N./R.N.

NUR 110 Gerontologic Nursing (3-0) 3 credits

This course is designed for nursing students and health care providers interested in the area of Gerontology. Topics can be applied in primary, secondary, or tertiary settings. Topics will include the cognitive disorders, drug interactions, group work, and rehabilitation techniques in the elderly. An overview of gerontology is offered.

NUR 202 Nursing Care of the Adult and Child II (5-12) 9 credits

This is the second of a two-semester sequence presenting increasingly complex health problems and their impact on progression through Erikson's developmental stages and needs as defined by Maslow. Nursing is presented utilizing the nursing process applied to client problems. Nursing concepts align with the FLCC Nursing Department's Philosophy and Organizing Framework as well as the National League for Nursing (NLN) Competencies and Outcomes. Major units of study include coping with problems of motor activity and sensory function, self-esteem, oxygenation, nutrition, metabolism and elimination, and environmental crises. Experiences in the college laboratory and clinical facilities support theoretical content. Note: Clinical meets for 11 weeks. Be prepared for lecture on campus when clinical does not meet. Prerequisite: NUR 101 and BIO 172 to be completed with a grade of "C" or better. Co-requisite: BIO 230 to be completed with a grade of "C" or better

NUR 203 Maternal-Child Health Nursing (8 weeks)(3-3) 4 credits

This course presents maternal-child nursing concepts as it relates to the family unit their ability to progress through Erikson's developmental stages and meet their needs as defined by Maslow. An emphasis is placed on the collaborative role of the nurse when providing for the health needs of families. Nursing concepts align with the FLCC Nursing Department's Philosophy and Organizing Framework as well as the National League for Nursing (NLN) Competencies and Outcomes. Major units of study include reproduction, antepartum, intrapartum, postpartum, neonatal transition, as well as the ethical concerns related to the maternal child population. Experiences in the college laboratory and clinical facilities support theoretical content. Note: Clinical meets for five weeks. Be prepared for lecture on campus during the time when clinical does not meet. Prerequisites: NUR 101, NUR 202, PSY 100 and PSY 200 with a grade of "C" or better. A Summer session may be offered for accelerated students. Traditional students who have a B- in NUR 101, are satisfactory clinically, and have the recommendation of their clinical instructor may take the Summer session on a space available basis.

NUR 204 Psychiatric/Mental Health Nursing (7 weeks) (3-3) 4 credits

The course presents mental health concepts as it relates to behavior and the individual's ability to progress through Erikson's developmental stages and meet their needs as defined by Maslow. An emphasis is placed on the collaborative role of the nurse when providing for the mental health needs of individuals. Nursing concepts align with the FLCC Nursing Department's Philosophy and Organizing Framework as well as the National League for Nursing (NLN) Competencies and Outcomes. Major units of study include therapeutic communication, the nurse-patient

relationship, and commonly occurring functional and organic mental disorders. Experiences in the college laboratory and clinical facilities support theoretical content. Note: Clinical meets for five (5) weeks. Be prepared for lecture on campus during the time when clinical does not meet. Prerequisites: NUR 101, NUR 202**, PSY 100, and PSY 200 with a grade of "C" or better. **NUR 202 is a prerequisite for all students except those registering for the condensed NUR 204 summer session on the recommendation of their clinical instructor.

NUR 206 Nursing Clinical Practicum (1 week - 40 hrs) 1 credit

This intensive, one week elective is offered during January Intersession or Summer Session to provide reality-oriented nursing practice based upon knowledge and skills accrued by nursing students during their Freshmen or Sophomore year at Finger Lakes Community College. The course is intended to permit the nursing student the curricular freedom to identify personal learning needs and initiate these learnings under the guidance of an expert clinical nursing instructor in an acute care hospital setting. This course offers the student the unique exposure to a full day or evening shift of clinical experience for a week's time, thereby allowing for continuity and intensity of clinical learning not provided in other nursing clinical laboratory courses. Prerequisite: Successful completion of NUR 100 or NUR 101 and current enrollment in the nursing program.

NUR 210 Pharmacodynamics of Nursing Practice (3-0) 3 credits

A basic course designed to familiarize the learner with those groups of drugs frequently employed in the treatment of commonly occurring health problems. The course will include the study of drugs that affect the following body systems: nervous, cardiovascular, endocrine, gastrointestinal, hematopoietic, immune, and respiratory. Drugs utilized in the treatment of infections and cancer will also be studied. Course restricted to R. N.'s and senior level students enrolled in an R.N. program. L.P.N.s and any other students must secure permission of instructor or department chair to take this course.

NUR 211 Clinical Make-up Practicum (0-1) 1 credit

This intensive, forty hour clinical make up course is required for the student in good clinical standing who has been absent for more than 10% of the required clinical hours in an FLCC required nursing courses with a clinical component. This course offers the student exposure to clinical experience with time possibly being divided between day, evening or weekend shifts thereby allowing for continuity and intensity of clinical learning. This course is graded S (satisfactory) or U (unsatisfactory). Prerequisite: Successful completion of theory component of FLCC nursing course in which the student received an incomplete due to clinical absenteeism and recommendation of course level faculty.

NUR 215 Nursing Seminar (2-0) 2 credits

Nursing seminar explores professional nursing practice issues from community, regional, national, and global perspectives. Nursing concepts align with the FLCC Nursing Department's Philosophy and Organizing Framework as well as the National League for Nursing (NLN) Competencies and Outcomes. Major units of study include professional nursing responsibilities, legal/ethical considerations, nursing theory, current trends affecting nursing practice, and professional licensure. Prerequisite: Successful completion of Nursing 101 with C or better. Co-requisite: NUR 202 or NUR 204.

NUR 223 Pathophysiology (3-0) 3 credits

This course is designed for students who wish to apply their knowledge of physiology to disease states occurring across the lifespan. The course will consist of a review of the normal functioning of selected body systems, and then analysis of pathological function during disease of those systems and standard treatment for these pathological conditions. Prerequisite: BIO 172 (Also listed as BIO 223)

NUR 230 Physical Assessment (2-2) 3 credits

This course focuses on the knowledge and skills necessary for conducting a complete nursing physical assessment. Lecture, demonstrations, small group interactions, and videotaped interviews focus on subjective assessment. Laboratory practices and audiovisual materials focus on objective assessment. Prerequisites: BIO 171, 172, NUR 100, or completion of an LPN/RN program; or permission of instructor.

NUR 254 Nursing Leadership (3-0) 3 credits

Effective leadership is based upon awareness of self and others and confidence in communication combined with an understanding of the dynamics of the delivery system in which one assumes a leadership position. This course will include methods for understanding your leadership/coaching abilities and how to further develop these into successful skills that will position you for leadership in your future career endeavors.

NUR 260 Nursing Capstone Internship (0-0) 90 hours

This course provides an opportunity for the nursing student in the last semester of the nursing program to closely study the role and responsibilities of the nurse in an assigned agency/unit and, under the guidance of the clinical preceptor, prepare to gradually assume the responsibilities of a RN on that unit/agency. This course is graded S (Satisfactory) or U (Unsatisfactory). Prerequisite: NUR 202 with a grade of "C" or better.

NUR 265 Trans-Cultural Considerations in Health Care (3-0) 3 credits

This course is designed for healthcare providers and nursing students who are interested in examining several different cultures in regards to heritage, family, education, occupation, communication, family roles, work force issues and spirituality. Responses to health, illness and death will also be explored. Prerequisite: ENG 101.

NUR 270 Ethical Consideration in Health Care (3-0) 3 credits

The purpose of this course is to involve the student in reading and discussing medical issues from an ethical perspective to create depth in our awareness of the moral problems that cannot be ignored and more often than not, cannot necessarily be solved. The scope of this course will entail examination of different ethical approaches to moral problems in medicine and their success or failure in a broad range of medical issues, including but not limited to: the physician-patient relationship, the role of the healthcare provider, euthanasia and death with dignity, rights to health care/costs of health care and an examination for important concepts such as autonomy, paternalism, rights, consent, and confidentiality. Prerequisite: ENG 103 (Also listed as HCS 270)

Philosophy

PHL 101 Introduction to Philosophy (3-0) 3 credits

Philosophy is the art and science of reasoning and the critical exploration of ideas. As a result, philosophy is primarily concerned with various questions which are inspired by reflection about and inquiry into the fundamental nature of things, including individuals' reflection on and about their place in the universe, themselves, and their relations to the members of their community. In this course, students will explore and examine some of the questions, concerns, problems, and intellectual schools or traditions which constitute the nature of philosophy. A number of these matters are explored through many of the various branches of the discipline, such as logic, metaphysics, epistemology, ethics, aesthetics, social and political philosophy, among others. This course carries SUNY General Education Humanities credit.

PHL 103 Ethics (3-0) 3 credits

This course investigates the theoretical nature of morality and its application in particular moral dilemmas. The course is designed to assist students in approaching, questioning, and refining their moral commitments and values, their understanding of the reasoned application of ethical principles, and, ultimately, their ethical practice in both their personal and professional lives. Among the theoretical questions posed and discussed are: Is morality simply relative to specific cultures? What are criteria for right and wrong? What is moral agency? Different ethical theories about the nature of a worthwhile life and concepts of morally sound behavior are examined. This course carries SUNY General Education Humanities credit.

PHL 105 Philosophy of Religion (3-0) 3 credits

The purpose of this course is to examine from a critical, philosophical perspective the various beliefs and practices of religion; problems associated with classical theism; the uniqueness of religious language; arguments for and against immortality; the challenge modern science poses to religion; and the notions of salvation, liberation, etc. As such, this course is to investigate religion in a way that is historically informed, theologically sophisticated, and philosophically challenging.

PHL 205 Philosophy, Sex, and Gender (3-0) 3 credits

This course will study how concepts of sex and gender inform our understanding of self-identity and sexual difference. The course will explore how conventional categories of gender (e.g., heteronormativity and androcentrism) shape/situate women and sexual minorities as 'other'. The course examines a number of theories about the conceptual regulations of gender identity, especially those drawn from foundationalism and essentialism and feminist challenges to these theories. The course also explores the intelligibility of possibilities for gender identity other than those that are conventionally reinforced. Prerequisite: ENG 101 and either PHL 100 or PHL 103. This course carries SUNY General Education Humanities credit.

Physics

PHY 101 Introduction to Physics (3-2) 4 credits

An introductory course in physics for students who have not had high school physics, designed for non-science majors as well as those who plan to take College Physics or General Physics. Emphasizes measurement, mechanics, and thermodynamics; includes selected topics from sound

and light as they relate to our daily lives. Provides prerequisite for PHY 118, PHY 119, and PHY 151 and fulfills laboratory science requirements for non-science degrees. This course carries SUNY General Education Natural Sciences credit.

PHY 105 Physics of Sound (3-2) 4 credits

An introductory course in physics for students who have not had high school physics, designed for non-science majors. This is a required course for music majors as well as Music Recording Technology majors. Emphasizes: Scientific method, measurement, laboratory proficiency. Topics include vibrations, transverse and longitudinal waves, sound waves, superposition of waves, standing waves, harmonic analysis, mathematical elements of the Pythagorean and modern scales, the production of musical sounds, hearing, sound measurement, fundamentals of microphones and speakers, elements of acoustic architecture. This fulfills the laboratory science requirements for non-science degrees. This course carries SUNY General Education Natural Sciences credit.

PHY 118 College Physics I (3-2-1) 4 credits

First semester of a two-semester sequence suitable for transfer students seeking a laboratory science elective, life science students, and those in the engineering technologies. This course is at the mathematical level of intermediate algebra and trigonometry. Topics include motion in one and two dimensions, force laws, energy, momentum, conservation principles, rotational motion, gravity, and fluids. PHY 101 or high school Physics is strongly recommended. Prerequisite: MAT 145 with a grade of 'C' or better or placement into Math Level 3 or higher. This course carries SUNY General Education Natural Sciences credit.

PHY 119 College Physics II (3-2-1) 4 credits

Second semester of a two-semester sequence suitable for transfer students seeking a laboratory science elective, life science students, and those in the engineering technologies. This course is at the mathematical level of intermediate algebra and trigonometry. Topics include oscillations and waves, electricity, magnetism, AC and DC circuits, optics, and limited topics in thermodynamics. Prerequisites: PHY 118 with a grade of 'C' or better and MAT 145 with a grade of 'C' or better or placement into Math Level 3 or higher. This course carries SUNY General Education Natural Sciences credit.

PHY 151 University Physics I (3-2-1) 4 credits

First semester of a two-semester sequence suitable for transfer students pursuing degrees in engineering, computer science, physics, or professional programs which require calculus-based physics. Topics include motion in one and two dimensions, force laws, energy, momentum, conservation principles, gravity, rotational motion, static equilibrium, and fluids. PHY101 or high school physics with a C or better is strongly recommended. Prerequisites: MAT 271 with a grade of 'C' or better. This course carries SUNY General Education Natural Sciences credit.

PHY 152 University Physics II (3-2-1) 4 credits

Second semester of a two-semester sequence suitable for transfer students pursuing degrees in engineering, computer science, physics, or professional programs which require calculus-based physics. Topics include oscillations and waves, electricity, magnetism, AC and DC circuits, optics, and limited topics in thermodynamics. Prerequisites: MAT 272 with a grade of 'C' or

better and PHY 151 with a grade of 'C' or better. This course carries SUNY General Education Natural Sciences credit.

PHY 253 Modern Physics (3-2-1) 4 credits

The continuation of the General Physics sequence. Topics include relativity, photons, matter waves, introduction to quantum mechanics, atomic and nuclear physics, and other selected topics in modern physics. Prerequisites: PHY 152 and MAT 273. Co-requisite: MAT 274.

Paralegal

PLG 100 Introduction to Legal Practice (3-0) 3 credits

This course will introduce students to the organization and operation of the legal system and fundamental legal concepts. The course gives an overview of legal ethics, the court system, constitutional law, civil litigation, contracts, criminal law, tort law, and business organizations. Co-requisite: ENG 101 and successful completion of all required remedial courses.

PLG 115 Computers in the Law Office (3-1) 3 credits

This course introduces the fundamental of how to use computer technology to accomplish tasks performed by legal assistants or paralegals in a law office. Computer applications will include word processing, spreadsheets, presentations, timekeeping and billing, and case management.

PLG 120 Business Structures (3-0) 3 credits

This course will introduce the student to the various types of business structures used by businesses today including sole proprietorships, general partnerships, limited partnerships, corporations, and limited liability companies. The course will define and describe each type of business structure and give the student an understanding of the practicalities involved in establishing each type of structure. Prerequisites: PLG 100, PLG 125. Offered on a regular rotating basis.

PLG 125 Legal Research and Writing I (3-0) 3 credits

This course is designed to introduce the student to the fundamental concepts of legal research and analysis through the use of FLCC's law library. The student will be introduced to primary and secondary sources of law. Emphasis will be placed on finding and analyzing both statutory and case law along with proper citation format. The student will be introduced to the preparation of simple legal documents and will prepare at least one legal research memorandum. Corequisite: PLG 100, ENG 101.

PLG 210 Real Property Law and Practice (3-0) 3 credits

This course is designed to introduce the student to the principles of real property practice. Topics to be covered include elements of real property law, contracts, deeds, encumbrances, legal descriptions, title protection, mortgages, closings, and leases. Emphasis will be placed on the completion of real estate documents and the practicalities of filings and recordings. Prerequisites: PLG 100, PLG 125. Offered on a regular rotating basis.

PLG 225 Legal Research and Writing II (3-0) 3 credits

This course is a continuation of Legal Research & Writing I with an emphasis on clear and effective legal writing. In this course, the student is exposed to more complicated legal research requiring careful research and detailed legal analysis. Students will also be instructed in computer assisted legal research. Assignments include legal research memoranda and various pleadings. Prerequisite: PLG 100, PLG 125.

PLG 230 Family Law (3-0) 3 credits

This course is designed to introduce students to the basic concepts of family law including prenuptial agreements, valid and void marriages, annulments, separation agreements, custody and child support, divorce, spousal maintenance, paternity, adoption, family offenses, and child protection. Emphasis will be placed on the preparation of necessary documents, filing procedures, and interview techniques. Prerequisites: PLG 100, PLG 125. Offered on a regular rotating basis.

PLG 235 Administration of Wills, Trusts, and Estates (3-0) 3 credits

This course will introduce the student to laws relating to estate planning, the administration of estates (both testate and intestate), and the establishment and administration of trusts. Emphasis will be placed on the practicalities of estate law including interview techniques, preparation of wills, trusts and administrative documents, and filing requirements and procedures. Prerequisites: PLG 100, PLG 125. Offered on a regular rotating basis.

PLG 240 Courts and Litigation (3-0) 3 credits

This course is designed to introduce the student to the federal and state court system and offer instruction in civil litigation procedures commencing from the initial client interview and file organization to the trial and any subsequent appeals. It will include instruction on procedures authorized under the New York Civil Practice Law & Rules and special emphasis will be placed on the content and preparation of documents used in civil law suits. Prerequisite: PLG 100, PLG 125 or have completed 60 credit hours. Offered on a regular rotating basis.

PLG 245 Tort Law (3-0) 3 credits

This course is designed to give the student an introduction to the principles of personal injury law. Topics to be covered include: negligence, assault, battery, and false imprisonment, intentional infliction of emotional distress, trespass to land, trespass to chattel, conversion, defamation, strict product liability, and professional malpractice. Emphasis will be placed on the role of a paralegal in personal injury litigation with preparation and discussion of pertinent documents and filing issues. Prerequisites: PLG 100, PLG 125. Offered on a regular rotating basis.

PLG 250 Paralegal Internship 3 credits

This course provides the student with the opportunity to gain practical work experience under the supervision of an attorney or experienced paralegal in day-to-day, on-site office work. The student must complete a minimum of 128 hours of internship work at the internship site during the semester, which may be a public or private law office, corporate or government legal department, abstract company, or other appropriate law-related site. It will be the student's responsibility to secure an internship site with the help of the program director. During the

semester, the student must attend three internship seminar sessions in which issues regarding the student's experiences and the paralegal profession will be discussed. Students will also do an oral presentation and write a paper describing their internship experiences. Prerequisites: Attendance at an orientation session held the semester before the internship, completion of 30 credit hours at least nine of which must be paralegal classes including PLG 100 and PLG 125 with a grade of 'C-' or better and an overall grade point average of 2.50. Internships are subject to the approval of program director as well as availability. Offered on a regular rotating basis.

PLG 255 Bankruptcy Law (3-0) 3 credits

This course is designed to give the student an understanding of bankruptcy law and its practical applications from both the debtor and creditor perspectives. Topics to be covered include: review of the Federal Bankruptcy Code and New York State Bankruptcy Laws, individual liquidation and reorganization, business liquidation and reorganization, the bankrupt estate, property exemptions, automatic stay and discharge. The student will have the opportunity to analyze a hypothetical financial situation and prepare a bankruptcy petition. Prerequisites: PLG 100, PLG 125. Offered on a regular rotating basis.

PLG 265 Law Office Practice (1-2) 3 credits

This hybrid course provides students who are unable to complete a traditional internship with the opportunity to experience life in a law firm through simulation. The students will meet with the instructor weekly to discuss issues pertaining to the paralegal profession. The first meeting will be on campus; all future weekly meeting will be via webinars. Further, the students will be assigned work which will simulate the types of assignments a paralegal will receive in the workplace. In this course, the instructor will assume the role of an internship supervisor. During the week, the students will be required to check in with the instructor / supervisor on a regular basis regarding assignments which will be provided online. During the semester, the student will be required to complete a total of 96 hours of internship work which may include, but is not limited to the preparation of the following: resumes, letters, court documents, billing sheets, real estate documentation, and living wills. Further, all students will be required to interview 8 paralegals and prepare a report on their experience. All work will provided and completed under the guidance of the instructor / supervisor. Prerequisites: The student must have completed at least 30 college credits which include a minimum of 15 credits in legal specialty courses.

Political Science

POL 100 American Government (3-0) 3 credits

This course explores the nature and dynamics of the American political system, including the basic structure, functions, and processes of the executive, legislative, and judicial branches of government, the roles of political parties and special interest groups, the mechanics of political campaigns and elections, the U.S. Constitution and the Bill of Rights, and prominent issues in U.S. domestic and foreign policy. This course carries SUNY General Education Social Sciences credit.

POL 110 State and Local Government (3-0) 3 credits

An exploration of the organization, functions and processes of State and Local Government,

highlighting the activities of governors, mayors, legislatures, bureaucrats and courts, the role of political parties and lobbies, the mechanics of campaigns and elections, public administration and finance, and important areas of public policy such as taxes, health, education, welfare, immigration, energy, housing, infrastructure, environmental conservation, crime and policing. This course carries SUNY General Education Social Sciences credit.

POL 130 International Relations (3-0) 3 credits

This course introduces students to the field of contemporary international relations, focusing upon the political, diplomatic, social, military, economic, and cultural interaction of state and non-state actors at the global level. By exploring a diverse array of global topics, from international diplomacy and security, to nuclear proliferation, terrorism, nationalism, pandemic disease, immigration, population growth, world trade and finance, regional economic integration, natural resource access and management, modernization, democratization, Third World poverty, human rights, and the role of the U.N. and other international organizations, this course will equip students with the knowledge necessary to understand, evaluate, and respond to a complex array of problems in the contemporary world.

Psychology

PSY 100 Introduction to Psychology (3-0) 3 credits

This course is a comprehensive overview of the scientific study of behavior and mental processes. It will familiarize students with the scientific methods used in the field of psychology. It will also introduce various topics within the field, such as consciousness, motivation, learning, memory, cognition, development, personality, psychological disorders and their treatments, social psychology, and the biological bases of behavior. This course carries SUNY General Education Social Sciences credit.

PSY 104 Exploring Psychology (1-0) 1 credit

This course for psychology majors is an overview of support services for students on campus, the development of successful student practices and, careers in psychology and psychotherapy including the subfields in psychology as well as related degree requirements. This course will also provide instruction in APA style and format which students will need in order to be successful in all 200 level psychology courses.

PSY 200 Life Span Development (3-0) 3 credits

This course is an overview of the study of the development of human behavior and mental processes over the life span from conception through late adulthood including death and dying. The emphasis in the course is on the complex interaction of the principles of physical, social, cognitive and personality development. Prerequisite: PSY 100.

PSY 205 Adolescent Psychology (3-0) 3 credits

This course provides an overview of human development during adolescence which occurs from age 11 through 19 years of age. Biological, cognitive, and socio-emotional development during adolescence are studied. Families, schools and cultures are emphasized as contexts for development. This course will primarily focus on normal development of the adolescent

however, some attention will be directed to some of the more common or particularly problematic disorders of adolescence. Prerequisite: PSY 100. This course carries SUNY General Education Social Sciences credit.

PSY 210 Social Psychology (3-0) 3 credits

This course provides students with an overview of the study of social influence including the influence of others on the individual as well as the influence of the individual on the group. The course builds on the knowledge of research in social science including observation, hypothesis development, data collection and measurement, experimentation, evaluation of evidence, and employment of mathematical and interpretative analysis. This examination of social influence focuses on interpersonal attraction, prejudice, conflict, aggression and helping behavior.

Prerequisite: PSY 100.

PSY 220 Abnormal Psychology (3-0) 3 credits

This course is an introduction to abnormal psychology. The student is introduced to the concept of psychological abnormality, the DSM classification system for diagnosing disorders and paradigms for interpreting data regarding psychological disorders. Students can expect to increase their awareness of the therapeutic approaches to psychological disorders and the different assumptions behind specific therapies. Prerequisite: PSY 100.

PSY 225 Child Psychology (3-0) 3 credits

Students will be introduced to the study of child development from conception through age 11. In addition to a biopsychosocial approach, child development will be considered from an ecological perspective that includes the influences of families and institutions on the developing child. Special attention will be given to domains of development such as language and play that are important for understanding how children function in childcare settings. This course will focus primarily on the normal development of the child; however, attention will be directed to some of the more common or particularly problematic disorders of childhood. This course will be especially useful to students who plan to work with children or in settings designed for children. Prerequisite: PSY 100. This course carries SUNY General Education Social Sciences credit.

PSY 255 Research Methods in Psychology (3-0) 3 credits

This course is the culmination of the AS degree in psychology. It will facilitate the hands-on exploration of scientific methods employed in the field of psychology and guide the conceptualization, design, creation, and execution of a semester-long project. The course will require students to examine, evaluate, and synthesize the knowledge and skills learned to this point, and to construct a meaningful reflective narrative of themselves as learners. It will also provide the opportunity to apply various topics within the field, (e.g. consciousness, motivation, learning, memory, cognition, etc.) in order to explain an aspect of behavior, or to propose a solution to a problem or challenge in the community. Students must matriculated in the AS Psychology degree program and have completed three semesters of coursework in the major. In addition, students are required to present a minimum of two semester-long projects (e.g., literature reviews, research design projects) from previous psychology coursework.

Matriculation in the AS Psychology degree, completion of three semesters in the degree program, and completion of two 200-level PSY courses are required.

Science

SCI 137 Chaos: The Self-Organizing Universe (3-2) 4 credits

An innovative introduction to Chaos which brings the new scientific paradigm to the undergraduate curriculum. Starting from geometric fractals describing trees, leaves, and snowflakes the quantitative understanding of fractals is achieved through laboratory exercises including modeling on computers. Relevance of the Chaos theory is explored across scientific disciplines, and extended to non-science areas such as communications, economics, and arts. This course fulfills a science elective course requirement for students whose primary area of study is other than the sciences; however, interested science/mathematics students can take this course as an elective. Prerequisite: High School algebra (Course I) or MAT 097.

SCI 151 Introduction to Astronomy (3-1) 3 credits

A survey of the mechanics of the solar system as they are interpreted by current astronomers. This course includes study of the motions of the earth, time and concepts and determination, planetary motions and characteristics, and general structure of the solar system as it appears to be at the present time.

SCI 171 Meteorology (3-0) 3 credits

Meteorology is the study of the air around us, the processes that cause weather and the interaction of the atmosphere with the Earth's surface, ocean and life. This course explores the variables that are the driving force behind weather and climate.

SCI 200 Global Ecosystems (0-3) 3 credits

The purpose of this course will be to provide students with field experience relative to course work in the area of Science & Technology as presented at Finger Lakes Community College. This excursion will emphasize the ecosystems, climate change, habitat preservation and distributions within a specific ecosystem, as well as identification of flora and fauna in each studied community. All aspects of the region will be studied, including geology, geography, flora, fauna, culture and ecological initiatives. The course will provide outstanding opportunity for students to observe and photograph rare and endangered species of flora and fauna, volcanic geology (inactive), as well as the more common life forms of the environments visited. Students will encounter individuals employed in the fields of ecology, management and habitat preservation, university research, and will have the opportunity to explore this type of employment through interactions with professionals.

SCI 220 Glacial Geology of the Finger Lakes (3-0) 3 credits

This course is an introduction to glaciation emphasizing historic events within the Finger Lakes region. The mechanics of glacial motion, erosion, and deposition will be studied and then used to interpret our modern landscape. Students will be introduced to the technique of air photo interpretation. Our modern biodiversity and distributional patterns of organisms will be related to postglacial events. Scenic values associated with glacial landscapes will be a focal point of the class field trips. (Also listed as CON 220)

Sociology

SOC 100 Introduction to Sociology (3-0) 3 credits

What is the connection between the individual and the group? Where do our beliefs and values come from? What causes inequalities? How do we change our social world? In Introduction to Sociology, students will learn to use sociological concepts, theories, and research methods to address questions like these. Sociology provides a unique perspective--often called "the sociological imagination"--that uses scientific research methods of inquiry. This perspective illuminates our daily experiences and decisions by challenging the taken for granted, "common sense" view. Introduction to Sociology will help students develop their critical thinking skills in ways that will be useful academically and in daily personal and community life. This course carries SUNY General Education Social Sciences credit.

SOC 115 Crisis Intervention and Prevention (3-0) 3 credits

This course provides theoretical and applied instruction in crisis intervention skills for those working with youth and adults involved in patterns of self-defeating behavior. Students will demonstrate skill in 19 specific competencies for using crisis as a teaching and therapeutic opportunity with others showing six specific patterns of self-defeating behavior.

SOC 200 Social Problems (3-0) 3 credits

A sociological examination of the causes, consequences and extent of persisting social problems. Special attention will be given to an examination of our economic and political structure along with an examination of various forms of social inequality. Social and political policy considerations will also be studied as they bear upon possible solutions to social problems under study. Prerequisite: SOC 100

SOC 209 Our Cultural Approach to Death (3-0) 3 credits

An interdisciplinary examination of our culture's attitudes, beliefs and rituals as they relate to death and dying. Coping techniques, the process of bereavement for individuals and communities, ethical, spiritual and moral issues related to death will be examined. Cross cultural variation will also be considered.

SOC 210 Race and Ethnicity (3-0) 3 hrs.

SOC 210 is a general introduction to the sociology of race and ethnicity. The course explores how race and ethnicity are socially constructed, historically and in the contemporary U.S. Particular emphasis is placed on inequality in major social institutions, including education, the economy and the criminal justice system. Contemporary issues and policies considered include immigration, social movements, and media representations. Prerequisite: ENG 101.

SOC 220 Sociology of Marriage and the Family (3-0) 3 credits

A sociological examination of marriage and the family as a social institution, considering its structure and social functions. Emphasis will be placed on the impact of social class and gender on family life. Cross cultural variation, social policy issues and theory and research will also be examined. Prerequisite: SOC 100.

SOC 230 Sex and Gender (3-0) 3 credits

SOC 230 examines the social forces that shape our lives by gender, beginning by distinguishing between the concepts of gender and sex. The course emphasizes awareness of the many forms of gender diversity, and explores the intersections of gender with race, class, and sexuality. The course will cover areas such as "gender and the body" (including beauty, sexuality, and interpersonal violence), "gender and social institutions" (including family, economy, politics, education, and religion), and "gender and social change" (including feminist, anti-feminist, LGBTQ, and other gender-related movements). Prerequisite: ENG 101.

Spanish

SPN 101 Spanish I (3-0) 3 credits

SPN 101 is a beginning language course designed for students with no previous experience in Spanish, or whose experience does not make placement in a higher level Spanish course advisable. The course is designed to provide students with the fundamentals of Spanish pronunciation, vocabulary and grammar, as well as an introduction to Hispanic culture. The course will stress the development of communication skills, especially listening and speaking, but will also promote reading and writing skills. Not open to students with credit in or currently enrolled in SPN 101 or SPN 140. This course carries SUNY General Education World (Foreign) Language credit.

SPN 102 Spanish II (3-0) 3 credits

SPN 102 is a continuation of the introductory level language course (SPN 101), with increased emphasis on vocabulary enrichment and the development of speaking ability as well as strengthening listening and reading comprehension skills. Students at this level will also continue to develop insights into Hispanic culture and to draw comparisons with their own culture. SPN 101 or SPN 140 or an equivalent skill level in the language as recommended by the World Languages @ FLCC Language Placement Guide. This course carries SUNY General Education World (Foreign) Language credit.

SPN 201 Spanish III (3-0) 3 credits

SPN 201 expands on the vocabulary and grammatical structures introduced in the first two semesters of study. Emphasis is on the continued development of Spanish language skills through the study and discussion of authentic readings in Hispanic literature and culture. Students will learn strategies to improve reading comprehension and fundamental composition writing skills. Students at this level will also continue to develop deeper insights into Hispanic culture and to draw comparisons with their own culture. Prerequisite: SPN 102 or an equivalent skill level in the language as recommended by the World Languages @ FLCC Language Placement Guide. This course carries SUNY General Education World (Foreign) Language credit.

SPN 202 Spanish IV (3-0) 3 credits

SPN 202 is a continuation of the intermediate level course (SPN 201). Emphasis is on enhancing communication skills in Spanish, both spoken and written. Students will refine critical reading and writing skills through further exploration of Hispanic literature and culture. Prerequisite:

SPN 201 or an equivalent skill level in the language as recommended by the World Languages @ FLCC Language Placement Guide. This course carries SUNY General Education World (Foreign) Language credit.

SPN 203 Spanish V (3-0) 3 credits

SPN 203 further develops Spanish speaking, listening, reading, and writing skills at the advanced intermediate level. The course includes an introduction to representative literary works of the Spanish-speaking world and a review of key and complex grammatical structures to support increased focus on reading and composition. Increasing awareness of cultural themes will be reinforced by a variety of activities designed to enhance and stimulate speaking skills.

Prerequisite: SPN 202 or an equivalent skill level in the language as recommended by the World Languages @ FLCC Language Placement Guide. This course carries SUNY General Education World (Foreign) Language credit.

SPN 204 Spanish VI (3-0) 3 credits

SPN 204 further develops Spanish speaking, listening, reading, and writing skills at the advanced intermediate level. The course includes continuing study of representative literary works of the Spanish-speaking world and a review of key and complex grammatical structures to support increased focus on reading and composition. Deepening awareness of cultural themes will be reinforced by a variety of activities designed to enhance and stimulate speaking skills.

Prerequisite: SPN 203 or an equivalent skill level in the language as recommended by the World Languages @ FLCC Language Placement Guide. This course carries SUNY General Education World (Foreign) Language credit.

Social Science

SSC 125 Foundations of Child Care (3-0) 3 credits

An examination of contemporary aspects of child care programs and an introduction to child care in in-home, center based and institutional settings. Child care theory, practice and social policy issues will be addressed. Prerequisites: HUS 102, PSY 100. Co-requisite: PSY 225.

SSC 150 Human Sexuality (3-0) 3 credits

An examination of human sexuality from biological, psychological, sociological, historical and anthropological perspectives. Research, theoretical perspectives and contemporary issues will be examined.

SSC 200 Introduction to Gerontology (3-0) 3 credits

An interdisciplinary examination of biological, sociological, psychological, anthropological, economic, political, demographic and medical perspectives as they bear upon the aging process and aged populations.

SSC 205 Service Learning (3-0) 3 credits

An opportunity for students to learn experientially by engaging in a community service activity. Students will learn directly about the dynamics and functions of community organizations. Students will be involved in 45 hours of supervised community service.

SSC 215 Topics in Social Science (3-0) 3 credits

This course is designed to offer students an opportunity to focus in-depth on a particular thematic area in the social sciences. The topic and content will vary from year to year. Specimen topics might include Justice in America, History of the Supreme Court, The Vietnam Era 1954-75, Tourism Anthropology, Women and Society or Sports in Society. This course is open to all students and community members interested in a particular seminar topic.

Smart Systems Technologies

SST 116 Introduction to Careers in High-Tech Ecosystems (FYE) (3-0) 3 credits

The purpose of this First Year Experience course is to introduce students to the emerging technologies careers as observed at site visits of area high technology businesses, and made tangible in class through hands on-experiences with tools (LabVIEW) and techniques used in the curriculum. Students practice industry recommended soft-skills such as communication and team work. The seminar helps students see how other courses, such as mathematics and physics, play a critical role in the AAS Instrumentation and Control Technologies degree program. Students learn to articulate the relevance of the curriculum for local and regional economic development based on high technologies. Prerequisite: MAT 097

SST 174 Computing with LabVIEW (1-2) 2 credits

This is a computational course focused on developing and implementing algorithms for monitoring and control of engineering systems using LabVIEW software. Topics covered include: problem solving, data acquisition, instrumentation and control, computer programming concepts, and spreadsheet concepts.

SST 231 Smart Systems Technologies (2-2) 3 credits

The 4th industrial revolution of cyberphysical systems, also known as Industrial Internet of Things (IIOT), is emerging from the 3rd industrial revolution spanning past 50 years which combined use of computers with robots. Students are introduced to characteristics of cyberphysical smart systems; and the role automation technologists play in prototyping, installation and maintenance of diverse systems in industrial ecosystems. Emerging smart systems technologies such as additive manufacturing, nanotechnology, MEMS, photonics, smart manufacturing, industrial cybersecurity, bigdata, artificial intelligence, and augmented virtual reality will be introduced. Student learn how the automation of data acquisition, analysis and control is essential for R&D as well as in digital transformation of industrial environments. The main topics covered are sources of signals, selection of appropriate transducers, and signal conditioning needed before signal is converted to digital format for cyberphysical data acquisition as required inputs for smart system technologies. Prerequisite MAT 152 or placement in Math Level 4, SST 174, TECH 122, TECH 123

SST 232 Cyberphysical Automation Control I (3-2) 4 credits

In the first level of Cyberphysical Automation Control, students are introduced to control tools and techniques used in automation using microcontrollers, programmable logic controllers, and programmable automation controllers. Students will apply concepts and techniques to a team-based case study project to solve problems encountered in high technology businesses. The

course prepares students for Automation Control II. Prerequisite: MAT 152 or placement into Math Level 4, PHY 118, SST 174, TECH 122, TECH 123

SST 233 Introduction to Process Improvement (3-0) 3 credits

The basis of this course is Lean Six Sigma techniques. Students learn the history of Six Sigma, introduced to industry in the late 1980's, as a methodology that focuses on minimizing process variation. The course also covers Lean, a process that focuses on eliminating waste and streamlining operations. Lean Six Sigma, a more recent technique combines the two processes. Students are prepared for the data driven decisions they will make in their careers in the Cyberphysical industry, as Lean Six Sigma provides a powerful tool to make improvements in any business.

SST 234 Cyberphysical Automation Control II (3-2) 4 credits

Students in this capstone class prepare to take part in a technological co-op experience in a local company. Students will apply concepts and techniques of mechatronics and machine vision in order to complete a team-based case study project to solve problems encountered in high technology businesses. Prerequisite: SST 231, TECH 123

SST 250 Cyberphysical Automation Technology Co-op 270 (work hours) 6 credits

The co-op program enables technology students to supplement academic studies with work experience. The student will be employed in either full-time or part-time employment for a minimum of 270 work hours. Prerequisite: Permission of Instructor

SST 259 Cyberphysical Technology Special Project (6-0) 6 credits

Students will complete industry specific projects under direction of instructors and/or industry mentors, to prepare for careers across diverse industries. Examples of projects include study of robotic systems, alternative energy system, fuel cells, quality improvement in manufacturing, radio-frequency communication systems, vibration study geared towards preventive predictive maintenance, wearable devices, VR, AVR, AI, Big Analog Data, and Industrial Applications of Machine Learning. Prerequisite: SST 232, Permission of Instructor

Technology

TECH 122 Electronic Theory (2-3) 3 credits

An algebra based electric circuit analysis course. Topics include: voltage, current, resistance, Ohm's law, resistor combination, Kirchhoff's laws, power, source conversion, capacitance, relays, microcontrollers, and residential wiring. Computer analysis of circuits introduced. Lab applies classroom theory, teaches use of multimeters and power supplies, and introduces the oscilloscope, breadboarding, schematic reading and troubleshooting. Prerequisite: MAT 145 or placement into Math Level 3 or higher.

TECH 123 Digital Electronics (2-3) 3 credits

This course focuses on the theory and application of digital devices and circuits. Topics investigated include digital signals, binary number systems, Boolean algebra and Karnaugh mapping circuit reduction techniques. Digital devices/circuits tested include basic logic gates,

flip-flops, counters, adders, registers, encoders, decoders, multiplexers, demultiplexers, and analog-digital converters. The course will also provide an introduction to microcontrollers and applications. Prerequisite: MAT 145 or placement into Math Level 3 or higher.

TECH 219 3D AutoCAD (2-4) 4 credits

Techniques for creating, viewing, plotting, and displaying 3D AutoCAD models will be presented. Lectures, demonstrations, and labs in a variety of in-depth application projects will enhance the student's CAD creative ability and professional development. Topics include 3-D display, User Coordinate Systems, point filters, extrusion, surfaces, solid modeling, plotting, rendering, and software customization. Prerequisite: TECH 106.

Theatre

THE 100 Introduction to Theatre Production/Technology (3-0) 3 credits

Students learn about, and perform, work on theatrical production. Shop and studio work is complemented by lectures and demonstrations on the technical components of a theatre production. Topics covered include: designers and their functions; scenic and costume construction techniques; stage rigging, hardware and material; sound; stage procedures and safety. Simple drafting projects and the ability to read floor plans and stage elevations are stressed.

THE 101 Stage Design (3-0) 3 credits

This course requires students to translate a visual concept into a design for the stage using the principles of composition and the basic elements of design and communicate that design both orally and visually. Emphasis is placed on the following areas of design: scenic, lighting, and costume. Secondary emphasis will be on make-up stage properties, projections, sound design, and the use of computers in the theatre. Work on technical crews for the department's production is required.

THE 102 Acting I: Introduction to Acting (0-6) 3 credits

An introductory course in acting and performance technique, designed to develop students' awareness of and capabilities in the acting process, and to foster an understanding of theatre as a valuable area of human endeavor. The course will introduce basic communication skills, including physical and vocal presence in front of an audience and will develop acting skill through the use of regular warm-ups, improvisational, imaginative and ensemble building theatre exercises as well as beginning scene study and monologue performance. Open to all students.

THE 103 Acting II: Scene Study (0-6) 3 credits

This is a performance course introducing scene work from a variety to dramatic styles. Concepts taught include script analysis, creative work habits, ensemble development, rehearsal skills, and playing physical actions.

THE 104 Introduction to the Theatre (3-0) 3 credits

Introduction to Theatre will provide a broad survey of the theatrical arts (playwriting, acting, directing, and design). The course will focus on significant periods of theatrical history

identifying important artists and innovators. Students will increase their understanding, appreciation, and critical perceptions of theatre by writing a 10-minute play and attending a theatrical production. This course is intended for students in the theatre track or students looking to fulfill their general education arts requirement. This course carries SUNY General Education The Arts credit.

THE 105 Rehearsal and Performance (3-3) 3 credits

This course gives students experience in workshopping, rehearsing, and performing for live audiences. Students will prepare a full length play or musical for public performance. In addition to attending a variety of rehearsals, students will complete hours helping to construct the production and are required to participate in the load-in and strike. This course is open to all students including high school juniors and seniors as well as members of the community. May be taken more than once for credit. (Also listed as MUS 155)

THE 106 Children's Theatre Tour (0-6) 3 credits

Children's Theatre Tour gives students experience in workshopping, rehearsing, and performing for live audiences. Students prepare a one-act play for presentation in the local primary and elementary schools. The one-act play will be built, rehearsed and toured by the members of the class during the semester. This course is open to all students and can be repeated more than once.

THE 115 Backstage Practicum (0-3) 1 credit

The Backstage Practicum provides students the opportunity to participate in the semester's main stage production as a backstage technician, or work for an outside theatre organization in the same capacity. Students can serve as the stage manager, light board operator, sound technician, costume dresser, prop runner, or on the shift crew. Technical positions will vary with the needs of each production. This course may be repeated more than once. The course is open to all students, but permission of instructor is required to ensure backstage assignment. Course graded as satisfactory/unsatisfactory

THE 181 Mime: Physical Theatre and Movement (3-0) 3 credits

In this course participants study and apply non-verbal techniques to create physical theatre performance. The course emphasizes the use and understanding of facial expressions, gestures, and pantomime. Various mime techniques, including those of Decroux and Montanaro, are taught. (Also listed as HPE 181)

THE 200 Directing Workshop (6-0) 3 credits

A workshop in directing techniques with emphasis on play interpretation, casting, stage movement, character development, rehearsals and performance. Prerequisites: THE 102

THE 210 Dramatic Literature (3-0) 3 credits

This course is an exploration of the history and genre of drama. By analyzing some of the best-known plays throughout theatre history and how they were performed, students will deepen their understanding of dramatic literature and performance. During the course students will decide on a particular area of research in order to write a critical analysis focusing on one or more play(s). The course culminates in a project focusing on one creative endeavor and reflecting on their chosen area of study. This course is appropriate for students in the Theater track or Humanities

track, and also meets the general education Humanities or Art requirement. Prerequisite: ENG 102 or ENG 103. (Also listed as ENG 213) This course carries SUNY General Education Humanities and The Arts credit.

THE 215 Scene Shop Practicum (0-2) 1 credit

Students will receive credit for working on the construction of scenic elements and providing other pre-production support for current productions. The course is open to all students and can be taken more than once. Course graded as satisfactory/unsatisfactory.

THE 220 Theatre History: Greeks through the 18th Century (3-0) 3 credits

This course surveys the origin and development of theatre from its origins to the 18th century within their social, political and economic contexts. Theatre architecture, theatre technology, design concepts, acting styles, and significant dramatic works will be explored. Theatre traditions of non-Western cultures are also included. This class is required of students in the theatre program. Prerequisite: ENG 101. This course carries SUNY General Education Humanities and Other World Civilizations credit.

THE 225 Theatre History: Romantics to Contemporary (3-0) 3 credits

This course surveys the development of theatre from the late 18th century to the present within its social, political and economic context. Theatre architecture, theatre technology, design concepts, acting styles, and significant dramatic works will be explored. The course also includes the discussion of theatre traditions of non-Western cultures. This class is required of students in the theatre program. ENG 101. This course carries SUNY General Education Humanities and Other World Civilizations credit.

THE 250 Theatre Internship 1-3 credits

Off-Campus work experiences allow students to receive college credit for working in the theatre. Internships can, but are not limited to, theatre management, production, or performance. Students can earn between 1 - 3 credit hours depending on the length of the internship and the number of hours worked. Permission of Instructor and Grade point average of 2.0 or higher.

Viticulture

VIT 100 Introduction to Wines and Vines (3-0) 3 credits

This course is designed to introduce students to the world of growing grapes, winemaking and wine appreciation. Orientation into the Viticulture and Wine Technology AAS program will occur in this class. Classroom topics include cultural history and geography, plant taxonomy and anatomy, wine producing regions, viticultural cycles, general winemaking operations and important factors influencing wine styles. There is a wine tasting portion of the class where students will learn to distinguish wines and how to read a wine label. This class will focus on the New York state wine industry.

VIT 105 Basic Viticulture Techniques (2-2) 3 credits

This course is designed to introduce students to current techniques used while managing a commercial vineyard. Students completing this class will understand how to maintain

appropriate vigor and productivity of a vineyard once it is established. Topics covered include: site analysis; varietal selection; trellising methods; nutrient needs of vines; diseases and insect pests of grapevines; crop regulation; breeding; grafting; vineyard floor management; and harvest determinations. A significant portion of the class will be dedicated to pruning. Viticulture safety issues will be addressed.

VIT 110 Summer Vineyard Technology Practicum (2.67-0-2.33) 5 credits

This field course is designed to develop relevant skills for summer maintenance of a commercial vineyard. Requirements will include: 105 hours of work at an approved vineyard; attending 25 hours of workshops dealing with seasonal vineyard operations; and participating in 15 hours of classroom discussion and lecture about their own and other students' activities in their own work experiences. Students will maintain journals on their work experiences, and keep track of their hours of different activities. The focus will be on vineyard maintenance for maximum health and productivity of vines. Prerequisite: VIT 105.

VIT 115 Introduction to Enology Lab Techniques (1-1) 2 credits

Students will become familiar with juice and wine analyses that are used when making a commercial wine from grape ripening through initial wine stabilization. Analytical methods (e.g. testing juices for sugar, acid and pH) are some of the skills that will be studied. Students will also study strategies for cleaning and maintaining the laboratory. Common mathematical and chemistry winemaking problems are embedded throughout this course. Identification and proper use of laboratory equipment will be integral to the course. Co-requisite: CHM 121.

VIT 200 Vineyard Management (3-0) 3 credits

This course is designed for students already familiar with the basics of viticulture. Lecture topics covered will include integrated pest management, canopy management, foliar sampling, sustainable management practices, and how cropping systems affect vine vigor. Labor management and grape contracts will be discussed. A team sustainability project will be completed focusing on a sustainability issue pertinent to the Finger Lakes wine growing region. A site selection project will be completed by evaluating and theoretically developing a real site for its potential as a vineyard. Prerequisite: VIT 105

VIT 201 Abridged Vineyard Management (1-0) 1 credit

This course meets with VIT 200 Vineyard Management. The course is designed for students in the viticulture track of the viticulture and wine technology program planning to transfer to a four year institution. Lecture topics covered include topics in integrated pest management practices. A site selection project will be completed by evaluating and theoretically developing a real site for its potential as a vineyard. Prerequisite: VIT 105.

VIT 205 Fall Wine Technology Practicum (2.33-0-1.67) 4 credits

This course facilitates a field experience for second year viticulture and wine technology students to develop relevant skills in current practices for harvesting and processing grapes into wine at a commercial vineyard and/or winery. Students gain hands on experience in fermentation management as well as winery safety, equipment and sanitation. Requirements include 75 hours of work at an approved winery, attending 20 hours of workshops dealing with seasonal winery operations, and participating in 15 hours of classroom discussion about their own and other

students' work experiences. Students will maintain journals on their internships, and keep track of their hours of different activities. Co-requisite: VIT 210.

VIT 210 Enology I (2-4) 4 credits

This course is designed to introduce second year viticulture and wine technology students to the science of winemaking. Topics covered include: microbiology of wine yeast and bacteria; and the importance of sanitation in the winery. Students will study and perform the processes of wine cellar operations from vineyard through fermentation, and the early stages of initial stabilization of young wines. Students will become familiar with various winemaking equipment including a stemmer/crusher, press, must pumps, juice and wine pumps, and other fermentation tools. Techniques and reasons for using various winemaking additives from harvest through stabilization will be explored. Work orders, common in winery environment, will be introduced, used and created by students throughout the course so the student is prepared to track information throughout harvest and winemaking. Prerequisite: CHM 121, VIT 115.

VIT 215 Enology II (2-2) 3 credits

This course is designed as a continuation of the study of the science of winemaking with more focus on wine stabilization, storage, waste water management and energy considerations when making wine. Topics covered include winery water and energy use, chemical and biological stability of bulk wine storage, wine preparation for packaging, and blending considerations. Students will study heat and cold stability of wines, filtration, barrel management, packaging wine, wine closures and become familiar with common analytical techniques used to stabilize wines. Prerequisite: VIT 210.

VIT 216 Abridged Enology II (0.5-.75) 1 credit

This course meets with VIT 215 Enology II. The course is designed for students in the enology track of the viticulture and wine technology program planning to transfer to a four year institution. Topics covered include filtration, packaging wine, and wine closures. Prerequisite: VIT 210

Wildland Fire Suppression

WFS 100 Land Navigation (1-0) 1 credit

This course will provide students with hands-on experience in the fundamentals of map and compass utilization. Emphasis will be placed on topographic map interpretation and field navigation techniques. In addition to the standard orienteering compass, students are introduced to the use of a Global Positioning System (GPS).

WFS 101 Fire Science Agencies and Careers (1-0) 1 credit

This course covers the main federal, state and non-governmental agencies that hire Wildland Fire Fighters. Topics will include the missions of each agency, hiring procedures, the meaning of seasonal employment, job descriptions and job requirements. Students will be given a thorough explanation of positions within and outside of New York State. In addition, the role of volunteer fire fighters will be explored.

WFS 110 Wildland Fire Lookouts, Communications, Escape Routes and Safety Zones (LCES) (1-0) 1 credit

In the wildland fire environment, Lookouts, Communications, Escape Routes, Safety Zones (LCES) are key to safe procedures for firefighters. The elements of LCES form a safety system used by firefighters to protect themselves and work as a team with others. In this course students become engaged in the process of designing their own safety program. Students will discuss and develop the L, C, E, and S creating a list of performance standards. The entire class will then work together to produce and edit a contract, based on consensus, which guides performance. (This course description is adapted from the National Wildfire Coordinating Group Fireline Handbook PMS-410, and Field Manager's Course Guide PMS 901-1)

WFS 130 Wildland Fire Suppression (S-130/S-190) (2-0) 2 credits

This course provides the training necessary for the Federal Interagency "RED" Card for wildland firefighter. Topics covered include: ignition, behavior, and spread of wildfires; the role of topography and fuels in wildfires; prescribed fires as a management tool; use of fire suppression equipment; methods of fire prevention and suppression; State and Federal wildland fire control agencies. Graded on a satisfactory/unsatisfactory basis. (Also listed as CON 255)

WFS 131 Firefighter Type I (S-131 Wildland) (1-0) 1 credit

This interactive course contains activities to allow students to demonstrate the information learned in class. Topics include: fireline reference materials, communications, and tactical decision making. Course meets NWCG (National Wildfire Coordinating Group) standards for S-131 certification (FFT1). Graded S (satisfactory) or U (unsatisfactory) basis. Prerequisite: Firefighter type 2 (FFT2). This can be accomplished through completion of CON 255/WFS 130 or any NWCG recognized S-130 course.

WFS 135 Wildland Fire Suppression Topics I (1-0) 1 credit

This course is designed to provide students with the opportunity to complete specialized training in wildland fire suppression topics not typically or regularly offered as part of the wildland fire suppression certificate program. Certain topics offerings may lead to NWCG certification and would therefore require prerequisite coursework. Other topics may be suitable for novices and have no prerequisites. Topics typically involve a field component and may be held as a residential course at the Muller Field Station or the East Hill campus. Prerequisite: CON 255/WFS 130 or any NWCG recognized S-130 course.

WFS 136 Wildland Fire Suppression Topics II (2-0) 2 credits

This course is designed to provide students with the opportunity to complete specialized training in wildland fire suppression topics not typically or regularly offered as part of the wildland fire suppression certificate program. All specialty courses will meet NWCG (National Wildfire Coordinating Group) standards. Topics typically involve a field component and may be held as a residential course at the Muller Field Station or the East Hill campus. Pre-requisite: CON 255/WFS 130 or any NWCG recognized S-130 course.

WFS 211 Portable Pumps and Water Use (S-211) (2-0) 2 credits

This course is designed for individuals to gain competency in the use of portable pumps and water for application on a wildland fire line. Skill areas include supply, delivery and application

of water. Students will be required to demonstrate their knowledge of correct water use, basic hydraulics and equipment care. A field exercise requires students to set up, operate and maintain pump equipment. Course meets NWCG (National Wildfire Coordinating Group) standards for S-211 certification.

WFS 212 Wildland Fire Chain Saws (S-212) (2-0) 2 credits

This course provides an introduction to the function, maintenance and use of powered chain saws and their tactical wildland fire application. This course is appropriate for students with little to no previous experience in operating a chain saw. Field exercises emphasize safety, proper cutting techniques, field maintenance and use of a saw in surroundings similar to fireline situations.

Course may lead to NWCG (National Wildfire Coordinating Group) standards for S-212 certification and may include a fee. Students pursuing NWCG certification MUST complete Firefighter type 2 (FFT2) prior to enrolling in this course. Prerequisite: Firefighter type 2 (FFT2). This can be accomplished through completion of CON 255/WFS 130 or any NWCG recognized S-130 course.

WFS 215 Fire Operations in the Wildland/Urban Interface (S-215) (2-0) 2 credits

This course designed to assist structure and wildland firefighters who will be making tactical decisions when confronting wildland fires that threaten life, property and/or improvements in the wildland/urban interface. Course meets NWCG (National Wildfire Coordinating Group) standards for S-215 certification. Prerequisite: CON 255/WFS 130.

WFS 256 Fire Ecology (3-0) 3 credits

This course is designed to give students an appreciation and understanding of the ecological role of fire in a variety of North American ecosystems. Advantageous adaptations of species inhabiting fire prone ecosystems will be discussed. The effects of fire on plants and animals will be discussed within the context of ecological time scales. The effect of past state and federal policies concerning wild fire will be examined using various case studies. Students will also be introduced to the use of prescribed burning as a habitat restoration technique. (Also listed as CON 256)

Administration, Faculty, and Staff

President's Cabinet

Robert K. Nye, President of the College

B.S., University of Arizona

M.P.A., Cornell University

M.S., United States Army War College

Ph.D., University of Kansas

Jonathan Keiser, Provost, Vice President of Academic and Student Affairs

B.S., Drexel University

M.S., University of Alabama

Ph.D., University of Minnesota

Adam W. Rathbun, Vice President of Administration & Finance

B.S., Towson University

M.B.A., University of Baltimore

Louis Noce, Chief Advancement Officer

B.A., Niagara University

M.S., SUNY College at Buffalo

Debora H. Orloff, Chief Officer for Assessment, Planning and Continuous Improvement

B.A., Ithaca College

M.S., Indiana University

Ph.D., Indiana University

Michelle Polowchak, Chief Human Resources Officer

B.S., St. John Fisher College

M.B.A., Saint Leo University

John M. Taylor, Chief Information Officer

A.A., Finger Lakes Community College

B.S., State University of New York Institute of Technology at Utica/ Rome

M.S., Nazareth College

Carol S. Urbaitis, Vice President of Enrollment Management

A.A.S., SUNY College of Technology at Alfred

B.S., State University College at Brockport

M.S.Ed., Alfred University

Ed. D., St. John Fisher College

State University Chancellor's Award for Excellence in Professional Service, 1995

Administrative Staff

Human Resources Generalist	Tracy L. Faunce
Human Resources Generalist	Evelyn Turner
Assistant to the Provost	Laurie Sickles
Associate Vice President of Academic Technology and High Impact Practices	Ryan L. McCabe
Associate Vice President of Enrollment Management	Michael J. Fisher
Associate Vice President of Instruction	Cathryn F. Kent, Esq.
Associate Vice President of Student Affairs	Sarah E. Whiffen
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Chief of Campus Police	Vacant
Controller	Christine M. Palace-Neininger
Director of Athletics	Samantha L. Boccacino
Director of Development	Brie E. Chupalio
Director of Facilities and Grounds	Catherine L. Ahern, PE, MSFM
Director of Public Relations and Community Affairs	Lenore L. Friend
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Assistant Director, Employment and Labor Relations	Catherine A. Burns
Assistant Director, Human Resources Operations	Ainsley M. Sikora
Principal Account Clerk	Sheree L. Hooper

Academic Department Chairpersons

Department of Business	Gary P. Sloan
Department of Computing Sciences	William C. McLaughlin
Department of Environmental Conservation and Horticulture	John C. Foust
Department of Health Science and Human Performance	Eric J. Marsh
Department of Humanities	Maureen Maas-Feary
Department of Mathematics	Theresa M. Gauthier
Department of Nursing	Heather Tillack '83
Department of Science and Technology	Jennifer L. Carney
Department of Social Science	Joshua W. Heller
Department of Visual and Performing Arts	Beth T. Johnson, Ph.D.

Directors/Coordinators

Adult Literacy Education Coordinator	Kathleen R. Guy
Associate Controller	Vacant
Bursar	Anne K. Swackhamer
Campus Center Director, Geneva	Jeanine Eckenrode
Campus Center Director, Newark	Deborah L. Corsner
Campus Center Director, Victor	Donald D. Emirbayer
Career Services Coordinator	Tammie M. Woody
Conservation Education Outreach Coordinator	Alexandria F. Esposito

Coordinator, Administrative Computing Services	Frederick E. Stringer
Coordinator, Annual Fund and Donor Engagement	Margaret M. Lorenzetti
Coordinator, IT Services and Instructional Technology	Robin S. Campo
Coordinator of Emergency Medical Services	Donna M. Spink
Coordinator of Online Student Retention	Sarah Heisman
Coordinator of Technology Integration	Maggie S. Miller
Coordinator of the Math Center	Marilyn S. Grzenda
Coordinator of the Writing Center	Sarah L. Blank
Director of Academic Advising, Career and Transfer Services	Vacant
Assistant Director of Academic Advising, Career and Transfer Services	Mehegan Murphy
Director of Academic Success and Access Programs	Lisa M. Thomas
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Director of Information Systems	Richard Klenotiz
Director of Library Learning Resources	Sarah J. Moon
Director of Marketing and Enrollment Communications	Christen M. Accardi
Director of Student Health Services	Janette M. Aruck, M.S., R.N.
Director of Student Life	Jennie M. Krampen
Director of Workforce and Career Solutions	Todd S. Sloane
Disability Services Coordinator	Melissa E. Soules
Enterprise Technology Coordinator	Samuel J. Iraci
Network Administrator	Robert F. Finger
Nursing Laboratory Coordinator	Katie A. Schaeffer
One Stop Center Director	Johnathan J. Murray
Systems Administrator, Virtual and Identity Infrastructure	Peter van der Sterre
Web Services Coordinator	G. Charles Woods

Finger Lakes Community College Emeriti/Distinguished Faculty

James W. Baird, Professor Emeritus

B.S., Syracuse University

M.B.A., Syracuse University

William A. Banaszewski, Professor Emeritus

B.S., Springfield College

M.Ed., State University of New York at Buffalo

M. Claire Blanton, Associate Professor Emeritus

B.S., University of Illinois

B.S., Alfred University

M.S., St. John Fisher College M.H.A., St. Louis University

Marylou E. Boynton, Professor Emeritus

B.A., Wellesley College

M.A., Case Western Reserve Ed.D., University of Rochester

State University Chancellor's Award for Excellence in Teaching, 2006†

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M.A., Kent State University

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B.A., Michigan State University

M.Ed., State University of New York at Buffalo

State University Chancellor's Award for Excellence in Teaching, 1993, Student's Choice Award, 1998

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B.S., State University of New York at Buffalo

M.S., Rochester Institute of Technology

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B.S. Rider College

M.S., Nazareth College

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M.S., Syracuse University

Nancy E. Clarkson, Professor Emeritus

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M.Ed., Teacher's College, Columbia University

John R. Coons, Professor Emeritus

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Charlotte J. Cooper, Professor Emeritus

B.A., Western Michigan University

M.L.S., Syracuse University

State University Chancellor's Award for Excellence in Librarianship, 1991, Distinguished Service Awards and Professional Achievement Awards

Jean M. D'Abbracci, Professor Emeritus

B.S., Alfred University

M.S., State University of New York at Binghamton

State University Chancellor's Award for Excellence in Teaching, 1999

Lee A. Drake, Professor Emeritus

B.S., Cornell University

M.S., Syracuse University

Martin C. Dodge, Professor Emeritus

B.A., Colby College

M.F., Utah State University

State University Chancellor's Award for Excellence in Teaching, 1992

†**Darrow G. Dunham**, Professor Emeritus

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M.S., State University College at Brockport

M.S., Syracuse University

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M.S., Columbia University

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M.S., State University of New York College of Environmental Sciences

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B.A., State University College at Geneseo

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M.S., State University of New York at Albany

M.A., Rutgers University

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B.A., Hobart College

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Ph.D., The Pennsylvania State University

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Ph.D., Johns Hopkins University

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Edward M. Morrell, Professor Emeritus

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State University College at New Paltz M.A.,

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B.S., Nazareth College

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Ann P. Robinson, Professor Emeritus

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M.G.A., Wharton School, University of Pennsylvania

Francis W. Smith, Professor of Environmental Conservation and Horticulture Emeritus

B.S., State University of New York College of Environmental Science and Forestry at Syracuse

B.S., Syracuse University M.S., Syracuse University

Ph.D., Texas A and M University

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