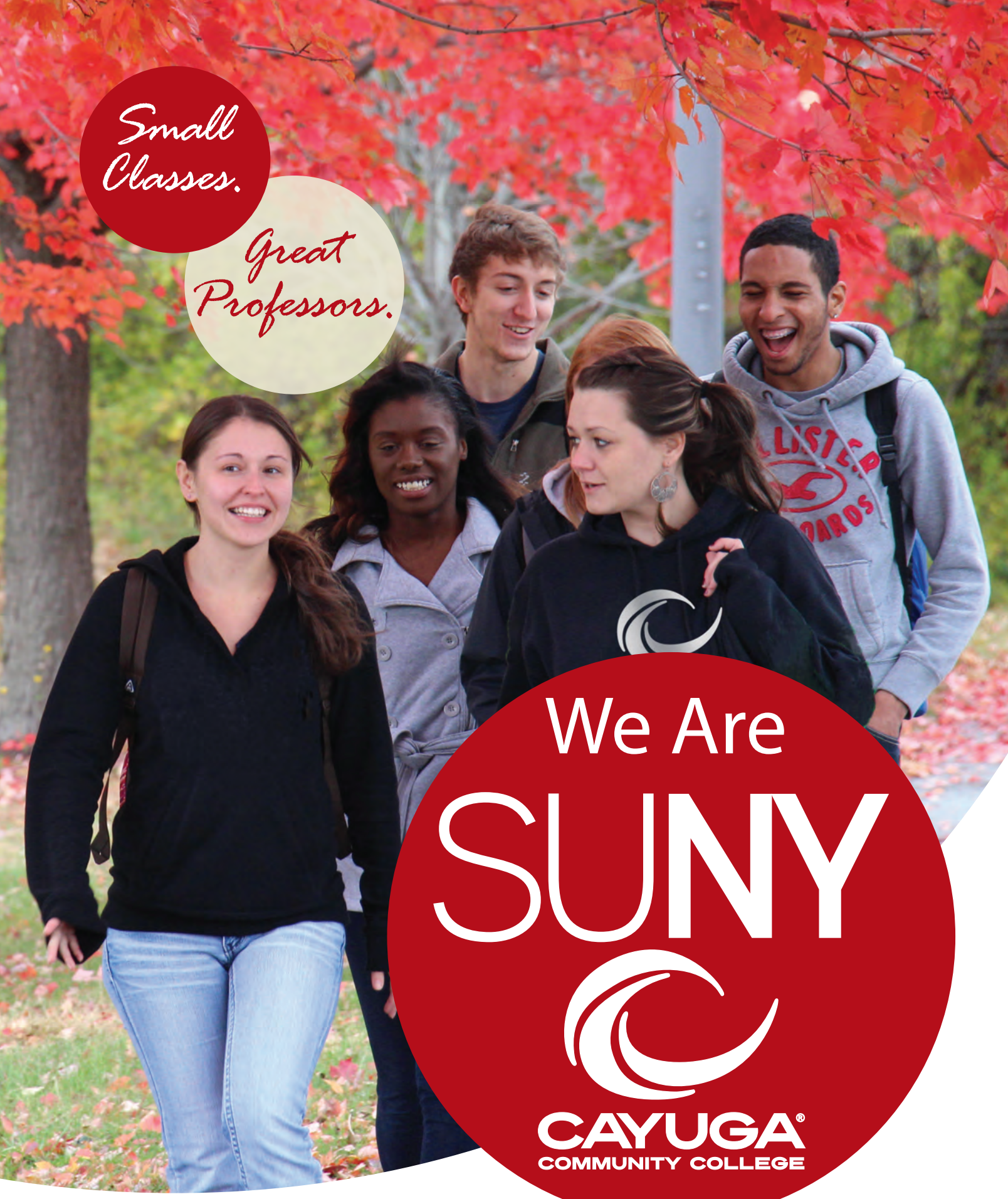

2016-17 Academic Catalog

CAYUGA®
COMMUNITY COLLEGE

Vision

**Recognized as an essential educational resource for the region,
Cayuga Community College will develop engaged citizens and improve our communities
through effective leadership, robust educational programs, community partnerships,
and state-of-the-art facilities.**

Mission

We are Cayuga Community College,

**dedicated to providing students with diverse learning opportunities to discover
their passions and advance their personal and professional growth.**

Core Values

In pursuit of our mission, we value:

***Engagement*, by focusing first on student success through collaborative learning,
individualized attention, and a supportive environment.**

***Integrity,* by working each day guided by standards of excellence to meet the mission of the College
and the needs of our communities.**

***Respect,* by treating each member of the college community with compassion and dignity,
celebrating our diversity and encouraging trusting relationships.**

***Collaboration,* by working together and supporting one another
for the greater good of our communities.**

Discover Cayuga

Cayuga inspires you to learn and grow. Explore for yourself why Cayuga Community College changes lives, with diverse learning opportunities to discover YOUR passions and advance YOUR personal and professional growth. We are Cayuga Community College!

Our History and Tradition

Cayuga Community College, a unit of the State University of New York with locations in the cities of Auburn and Fulton, is a two-year community college sponsored by Cayuga County and governed by a 10-member Board of Trustees.

Committed to being the community college for both Cayuga and Oswego counties, the College offers transfer and career-oriented curricula on a degree and certificate basis through day, evening, Sunday, online, and summer sessions. For groups such as high school seniors, government agencies, retirees, and industrial, business and professional personnel, the College also offers credit and credit-free specialized instruction according to need and interest.

Founded under the sponsorship of the Auburn City School District in 1953 as Auburn Community College, the College changed its official name to Cayuga County Community College in 1975 when Cayuga County assumed sponsorship.

The Auburn campus is located in the seat of Cayuga County in New York State's Finger Lakes Region. The Fulton campus is located in Oswego County, just 10 miles from the southeast shore of Lake Ontario. Both locations offer a blend of rural and urban cultures with a rich variety of recreational and cultural opportunities including museums, parks, and theatrical and musical venues. The cities of Ithaca, Syracuse and Rochester are an easy drive from either location.

The Fulton Campus, which originated in January 1994, has occupied a few different locations over the years. From 2001 to 2012, classes were offered in 50,000 square feet at the Broadway location. In the fall of 2012, the campus was relocated to a larger location at River Glen Drive. The new location more than doubles the square footage, offers more classrooms and labs, student space, offices, and has much more potential for future growth. The Fulton Campus has "branch" status, meaning degrees can be completed entirely in Fulton.

Accreditation

Cayuga Community College is accredited by the Commission on Higher Education, a unit of the Middle States Association of Colleges and Schools (3624 Market Street, Philadelphia, PA 19104, 215-662-5606), Accreditation Commission for Education in Nursing (3343 Peachtree Road, Suite 850, Atlanta, GA 30326), the Society of Broadcast Engineers (PO Box 20450, Indianapolis, IN 46220) and the National Association for the Education of Young Children (1313 L. Street, NW, Washington, DC 20005) and the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449. The College's programs are registered by the New York State Department of Education. The College holds institutional membership in the American Association of Community Colleges, New York Community College Association of Presidents, Faculty Council of Community Colleges, Association of Community College Trustees, and New York Community College Trustees of the State University of New York.

The State University of New York (SUNY)

SUNY, the State University of New York, is a comprehensive public university system consisting of 64 campuses that provide a full range of educational opportunity across New York State. The educational, cultural, and economic impact of the SUNY system is felt not only throughout the state, but nationally and worldwide as well. The 30 locally-sponsored two-year community colleges operating under the program of the State University of New York offer degree programs that serve as job-entry educational experience or provide transfer preparation for a baccalaureate degree at a senior campus.

Faculty

Approximately 50 full-time teaching faculty and 180 part-time instructors make up the Cayuga faculty. Cayuga instructors hold advanced degrees from universities across the country, and bring a broad range of professional experience from the academic world and beyond. The hallmark of the faculty is dedication to students. In student opinion surveys, Cayuga instructors consistently earn positive reviews for their competence and commitment. Members of the Cayuga faculty have earned dozens of awards and citations for educational excellence, including several SUNY Chancellor's Awards for Excellence.

Cayuga Students

Students choose Cayuga for a variety of reasons. While many students pursue a degree or certificate, a significant number take courses for other reasons: to gain specific job skills, explore an area of interest, pick up courses needed for a degree elsewhere, or prepare for transfer to another institution. With all of these goals in mind, Cayuga provides academic support, financial aid, and other resources to help all students with their educational progress.

Student Profile, Fall 2015

The following is a recent profile of the student population:

Auburn campus	1,210
Fulton campus	755
Online	1,022
High School / Other	1,517
Total	4,503
Full-time / part-time ratio	40/60%
First-time	717
Transfer	442
Continuing	1,563
Returning	352
Female / male ratio	60/40%
Residents of Cayuga or Oswego County	70%
Median Age	24

Source: Argos Report, DEM 100

Cayuga's Website

Cayuga provides information to the campus community and the world through its website, **www.cayuga-cc.edu**

Contents of this catalog may be found online at **www.cayuga-cc.edu/catalog**

***Catalog Disclaimer**: Notwithstanding anything contained in this Catalog, Cayuga Community College expressly reserves the right, whenever it deems advisable **(1)** to change or modify its schedule of tuition and fees, **(2)** to withdraw, cancel, reschedule or modify any course, program of study, degree, or any requirement or policy in connection with the foregoing, and **(3)** to change or modify any academic or other policy. Please be advised that, due to printing deadlines, information contained in this Catalog may be outdated. Changes in information contained in the Catalog and new academic regulations, policies, or programs will be published on the College's website. It is the responsibility of each student to ascertain current information that pertains to the individual's program, particularly with regard to satisfaction of degree requirements, through frequent reference to the website and by consultation with the student's advisor, and other offices as appropriate (such as the Registrar or Financial Aid). In preparing this Catalog, efforts are made to provide pertinent and accurate information; however, Cayuga assumes no liability for Catalog errors or omissions.*

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School of Business

Professor William Prosser, Division Chair
315-294-8416 • prosser@cayuga-cc.edu

Cayuga's School of Business is dedicated to providing quality instruction, personal attention, and relevant learning experiences for all students who wish to gain the confidence and skills they need to start their career or gain a foundation in business theory and practice for further study.

What makes Cayuga unique is our hands-on approach, small class sizes, individualized instruction, experienced faculty, and commitment to student success.

Degrees

ACCOUNTING AAS

BUSINESS ADMINISTRATION AS*†

BUSINESS ADMINISTRATION AAS*†
- **Entrepreneurship**
- **Sports Management**
- **Wine Studies**

Certificate Programs

Accounting
Event Management‡
Tourism Management‡
General Business*

* Degree can be completed entirely at Auburn or Fulton campus (select concentrations are available in Fulton).

† Degree may be completed entirely online (select concentrations available online and Fulton).

‡ Degree must be completed entirely online

Note: Students living in Maryland, Arkansas, Minnesota, Utah or Wyoming are not authorized to enroll in any online degree or course.

Accounting A.A.S.

This program is intended for those planning to enter the accounting profession upon completion of the degree.

Degree Requirements

Students receive instruction in the field's core subject areas. Those who enroll at a time other than the fall semester may need more than four semesters to complete the required sequence of courses. Some third- and fourth-semester business courses are only offered during the day.

The curriculum listed on this page represents the minimum coursework required for the A.A.S. degree in Business: Accounting. Any exception must have the written consent of the chair of the Division of Behavioral/Social Sciences, Business, Criminal Justice, Teacher Education, and Physical Education/Health.

Career Possibilities

Junior staff accountant, general account manager, account clerk and others

Transfer Information

Students should contact their advisor and/or the transfer counselor in the Centers for Student Engagement and Academic Advisement for information on transfer planning. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
BUS 101	Principles of Accounting I*	4
BUS 103	Principles of Business	3
BUS 225	Microcomputer Application Software	3
	Math**	3
		16
Second Semester		
ENGL 102	Freshman English II	
or		
ENGL 270	Technical Writing	3
BUS 102	Principles of Accounting II*	4
BUS 205	Business Law I	3
	Liberal Arts Elective	3
	Health or Physical Education	1
		14
Third Semester		
ENGL 221	Effective Speech: Public Address	
or		
ENGL 222	Effective Speech: Group Discussion	3
BUS 090	Small Business Accounting*	2
BUS 201	Intermediate Accounting I*	4
BUS 222	Federal Income Tax*	3
BUS 227	Corporate Finance	3
ECON 201	Introduction to Economics I	3
		18
Fourth Semester		
BUS 202	Intermediate Accounting II*	4
BUS 150	Business Communications	3
BUS 220	Business Statistics	3
BUS 221	Accounting Systems with Microcomputer Applications*	3
ECON 202	Introduction to Economics II	3
		16
TOTAL CREDIT HOURS		**64**

* To be eligible for this degree, a student must earn a C or higher in this course.

** MATH 102 or higher

Business Administration A.A.S.

This program is designed for students who wish to obtain a General Education in business and who intend to enter the business community upon completion of degree requirements.

Degree Requirements

Students who plan to transfer into upper-level programs at other institutions should pursue the A.S. Business: Business Administration degree.

The curriculum listed on this page represents the minimum coursework required for the A.A.S. Business: Business Administration degree. Any exception must be with the written consent of the chair of the Division of Behavioral/Social Sciences, Business, Criminal Justice, Teacher Education, and Physical Education/ Health.

Career Possibilities

Career possibilities are plentiful with the ability to perform administrative and management tasks, accounts payable and accounts receivable, scheduling and planning, marketing, advertising and sales, insurance claims processing, retail management, property management, and business ownership.

Transfer Information

Students should contact their advisor and/or the transfer counselor in the Centers for Student Engagement and Academic Advisement for information on transfer planning. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
BUS 101	Principles of Accounting I	4
BUS 103	Principles of Business	3
BUS 225	Microcomputer Application Software	3
	Math*	3
	Health or Physical Education	1
		17
Second Semester		
ENGL 102	Freshman English II	3
BUS 102	Principles of Accounting II	4
BUS 205	Business Law I	3
BUS 150	Business Communications	3
	Math/Science	3
	Health or Physical Education	1
		17
Third Semester		
BUS 200	Principles of Management	3
BUS 204	Marketing	3
ECON 201	Introduction to Economics I	3
	Behavioral/Social Sciences	3
	Business**	3
		15
Fourth Semester		
ENGL 221	Effective Speech: Public Address	3
or		
ENGL 270	Technical Writing	
ECON 202	Introduction to Economics II	3
	Behavioral/Social Sciences	3
	Business**	3
	Elective	3
		15
TOTAL CREDIT HOURS		**64**

* Students may elect to take BUS 105 and 106 to fulfill the 3-credit-hour math elective. If this sequence is elected, the business math courses will not fulfill any other degree requirement.

** Business electives include any BUS, ECON, ENTR, WS or CS course. In addition, PE 170 and PE 270 can be taken as business electives.

Business Administration A.A.S. Concentrations in the Discipline

Concentrations offer focused electives in Entrepreneurship, Sports Management and Wine Studies for enhanced career and transfer opportunities. Concentrations are not majors and are not required to earn a Business Administration degree. Consult with an academic advisor before scheduling courses for a concentration.

Entrepreneurship

This concentration will help students develop entrepreneurial skills and build confidence in starting their own business or in developing innovative ideas. The three classes listed below constitute an Entrepreneurship Concentration within a Business Administration A.A.S. degree.

Courses		*Credit Hours*
ENTR 200	The Entrepreneurial Process	3
ENTR 202	Innovation and Creativity	3
ENTR 204	Social Entrepreneurship and Non Profit Management	3

Sports Management

This concentration allows students to build business management and marketing skills in the area of Sports Management. By using these courses as business electives and free electives, students can earn a Business Administration A.A.S. degree, and seek employment or transfer to a bachelor's program in Sports Management.

Courses		*Credit Hours*
BUS 170 / PE 170	Sports Management	3
BUS 271 / PE 270	Sports Promotions	3
PE 290	Internship in Sports Management	3

Wine Studies

Students can complete a total of 3 classes (9 credits) listed below to receive a Wine Studies Concentration within a Business Administration A.A.S. degree. This concentration can be completed fully online. Students must be age 21 or older in order to complete the tasting component of the Introduction to Wines of the World class. Students under age 21, can still register for the classes and concentration, but will not be permitted to taste wine and will be given alternate assignments.

All students must take the following two classes:

Courses		*Credit Hours*
WS 110	Introduction to Wines of the World (*offered in a classroom and online)*	3
BUS 250	Wine Business Management, Marketing and Sales (*offered online)*	3

Students select one class out of the three classes listed below.

BUS 249	Introduction to Tourism **offered online	3
BUS 275	Business Internship *Students electing this class will gain experiential learning working at a winery, restaurant, wine store, or wine related industry.*	3
WS 180	Introduction to Enology and Viticulture *(Pending sufficient student interest)*	3

Business Administration A.S.

This program is designed for students interested in transferring to a baccalaureate program in accounting, business administration, secondary business education, marketing, or related fields.

Degree Requirements

General Education requirements must be met before the A.S. degree will be granted. For details on General Education requirements, see pages 72-73.

The curriculum listed on this page represent the minimum course requirements for the A.S. degree in Business: Business Administration. Any exceptions must have the written consent of the chair of the Division of Behavioral/Social Sciences, Business, Criminal Justice, Teacher Education, and Physical Education/Health.

Career Possibilities

Upon completion of a baccalaureate or higher degree, a student is typically prepared to enter the fields of accounting, business administration, secondary business education and marketing.

Transfer Information

Students should contact their advisor and/or the transfer counselor in the Centers for Student Engagement and Academic Advisement for transfer information. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English	3
BUS 101	Principles of Accounting I	4
BUS 103	Principles of Business	3
	Math*	3
	Science**	4
		17
Second Semester		
ENGL 102	Freshman English II	3
BUS 102	Principles of Accounting II	4
BUS 225	Microcomputer Application Software	3
	Math*	3
	Physical Education	1
	Health	1
		15
Third Semester		
ENGL 221	Effective Speech: Public Address	3
BUS 200	Principles of Management	3
BUS 205	Business Law I	3
ECON201	Introduction to Economics I	3
	Other World Civilizations *or* the Arts General Education**	3
	Physical Education	1
		16
Fourth Semester		
BUS 204	Marketing	3
ECON 202	Introduction to Economics II	3
MATH 214	Statistics	3
HIST 101	Western Civilization I	
or		
HIST 102	Western Civilization II	
or		
HIST 103	Pre-History and Early American History	
or		
HIST 104	19th Century American History	
or		
HIST 105	America in the 20th and 21st Centuries	3
	Elective	3
		15
TOTAL CREDIT HOURS		**63**

* Completion of this degree requires mathematics competency of at least MATH 106. Completion of MATH 108 is recommended.

** Choose a course from the General Education Requirements for Other World Civilizations or The Arts

Certificate Programs

Accounting

This program can be completed in one year if the student enters in the first summer session, satisfactorily completes BUS 101 and BUS 102, and enrolls full-time days in the fall and spring semesters. Upon completion of certificate requirements, students may wish to pursue study toward an A.A.S. degree in Accounting.

Courses		*Credit Hours*
Summer Session I		
BUS 101	Principles of Accounting I*	4
Summer Session II		
BUS 102	Principles of Accounting II*	4
First Semester		
BUS 090	Small Business Accounting*	1
BUS 201	Intermediate Accounting I*	4
BUS 222	Federal Income Tax*	3
BUS 225	Micro Application Software	3
BUS 227	Corporate Finance	3
		14
Second Semester		
BUS 103	Principles of Business	3
BUS 202	Intermediate Accounting II*	4
BUS 150	Business Communications	3
BUS 221	Accounting Systems with Microcomputer Applications*	3
		13

*A grade of C or higher is required to be eligible for the certificate.

Event Management

The program must be completed online in a minimum of two semesters.

Courses		*Credit Hours*
First Semester		
BUS 150	Business Communications	3
BUS 216	Personal Selling	3
BUS 22	Microcomputer Application Software	3
BUS 248	Event Planning	3
BUS 206	Human Resource Management	
or		
BUS 245	Supervisory Management	3
		15
Second Semester		
BUS 252	Convention & Meeting Management	3
BUS 253	Non-Profit Event Management	3
BUS 254	Marketing for Hospitality & Tourism	3
BUS 260	Project Management	3
BUS 275	Business Internship (NYS Residents Only)	
or		
ENTR 200	The Entrepreneurial Process	3
`		**15**

General Business

The program can be completed in a minimum of two semesters.

Courses		*Credit Hours*
First Semester		
BUS 101	Principles of Accounting I	4
BUS 103	Principles of Business	3
BUS 105	Business Math	3
BUS 150	Business Communications	3
BUS 225	Microcomputer App. Software	3
		16
Second Semester		
ENGL 101	Freshman English I	3
BUS 102	Principles of Accounting II	4
BUS 204	Marketing	3
BUS 205	Business Law I	3
BUS 206	Human Resource Management	
or		
BUS 200	Principles of Management	3
		16

Tourism Management

The program must be completed online in a minimum of two semesters.

Courses		*Credit Hours*
First Semester		
BUS 150	Business Communications	3
BUS 216	Personal Selling	
or		
WS 110	Introduction to Wines of the World	3
BUS 248	Event Planning	3
BUS 249	Introduction to Tourism	3
BUS 206	Human Resource Management	
or		
BUS 245	Supervisory Management	3
		15
Second Semester		
BUS 225	Microcomputer Application Software	3
BUS 254	Marketing for Hospitality and Tourism Management	
or		
BUS 250	Wine, Business Management, Marketing & Sales	3
BUS 255	Tourist Destinations	3
BUS 260	Project Management	3
BUS 275	Business Internship (NYS Residents Only)	
or		
ENTR 200	The Entrepreneurial Process	3
		15

School of Health Sciences

Professor Christie Waters, Division Chair
315-294-8421 • waters@cayuga-cc.edu

Cayuga offers the perfect start for students passionate about the field of medicine. Whether you have a specific goal in mind, or would like to learn more before committing to a particular career path, Cayuga gives you everything you'll need to make an informed decision about your future.

Each of the seven concentrations is tailor made for a seamless transfer process to such prominent medical programs as those at SUNY Upstate Medical University and New York Chiropractic College.

These institutions will accept all 64 credits from Cayuga's Health Sciences program, putting you on the fast track for the health career you've always dreamed of.

The Nursing program at Cayuga Community College prepares the student for entry into the profession of Nursing.

Degrees

HEALTH SCIENCES A.S.*

- **Cardiovascular Perfusion**
- **Chiropractic Medicine**
- **Medical Imaging/Radiography**
- **Medical Technology & Biotechnology**
- **Physical Therapy**
- **Radiation Therapy**
- **Respiratory Therapy**

NURSING A.A.S.*

OCCUPATIONAL THERAPY ASSISTANT A.A.S.**

* Degree can be completed entirely at Auburn or Fulton campus (not all concentrations are available in Fulton).

** Effective Fall 2017, degree can be completed on the Fulton campus only.

Health Sciences / Concentrations in the Discipline

Within the Liberal Arts: Health Sciences degree program, concentrations are available in Medical Imaging/Radiography, Medical Technology and Medical Biotechnology, Radiation Therapy, Respiratory Therapy, Physical Therapy, Cardiovascular Perfusion and Chiropractic Medicine to emphasize required courses for transfer to Upstate Medical University, or the New York Chiropractic College. The information below lists the courses required to fulfill specific concentrations.

Degree Requirements

To complete a concentration, meet with your academic advisor and select the specified courses as part of the Health Sciences Program requirements.

Each concentration lists the specific courses required by Cayuga to complete the Health Sciences degree and those that are required by the transfer institution. Other relevant information for each of the transfer institutions is also documented below. Note that courses vary among four-year transfer institutions, those listed below are only guaranteed for the transfer institution indicated.

Transfer Information

For those concentrations designed for transfer to SUNY Upstate Medical University, it is recommended that you attend an open house and a shadow day at the University.

Applications for admission are available online starting August 1. The pre-requisite courses listed below must be completed by the time of enrollment. However, you may apply to the University with the courses still in progress. More details can be found at www.upstate.edu/prospective/, including shadow day and open house opportunities.

Cardiovascular Perfusion

Cardiovascular Perfusionists work directly with cardiac surgeons to replace lung and heart function during cardiac surgery. They work with sophisticated equipment commonly known as bypass machines. Cardiovascular perfusionists have little to no patient contact. Students are admitted to SUNY Upstate Medical University on a Fall rotation. A maximum of 6 students are admitted each rotation. Students that graduate from the SUNY Upstate program are eligible to take the American Board of Cardiovascular Perfusion's National Certification Exam.

Courses		*Credit Hours*
A. Liberal Arts Requirements (for a Cayuga degree)		
	Math Elective 106, 108 or 214 *(Math 214 recommended)*	3
ENGL 270	Technical Writing	3
	Other World Civilizations General Education or The Arts General Education	3
SOC 101	Introductory Sociology	3
HIST 101-105		3
	Health Elective	1
	Physical Education Electives	2
	Liberal Arts Electives *(Cannot be an ART, MUSI, THA, GIS, ENGR or ELEC designation)*	14
	Sub-Total	**32**

B. Core Course Entrance Requirements (SUNY Upstate)
Requires attendance before an interview at a clinical observation of a perfusion procedure or attendance at a perfusion presentation on the SUNY Upstate campus or attendance at a Perfusion shadow day, and the following:

BIOL 203	Anatomy & Physiology I	
BIOL 204	Anatomy & Physiology II	
BIOL 103	Biological Principles I	
BIOL 104	Biological Principles II	
BIOL 106	Zoology	
(Any combination of the above courses to total 8 credits)- BIOL 103/104 recommended		8
CHEM 103	General Chemistry I	4
CHEM 104	General Chemistry II	4
ENGL 101	Freshman English I	3
ENGL 102	Freshman English II	3
MATH 104	College Algebra and Trigonometry *(or Higher)*	3
PHYS103 or PHYS 200	General Physics I / Physics I – Mechanics	4
PSY 101	Introductory Psychology	3
	Sub-Total	**32**

Chiropractic Medicine

Doctors of Chiropractic Medicine are involved in the diagnosis, treatment and prevention of disorders of the neuromusculoskeletal system and the effects these disorders have on general health. Chiropractors use manual manipulation of joints and soft tissues to improve patient function and overall health. This concentration is designed for transfer to the New York Chiropractic College. Admission to NYCC requires a total of 90 credits . The 90 credits must include the Core Course Entrance Requirement credits from the 64 credits listed below, the remaining 26 credits may be obtained at Cayuga or another academic institution. NYCC typically will accept the 26 remaining credits from a wide range of courses. The Doctor of Chiropractic degree at NYCC requires a minimum of ten 15-week trimesters of full-time resident study, including a clinical internship. Students are admitted to NYCC on a Fall rotation.

Courses		*Credit Hours*
A. Liberal Arts Requirements (for a Cayuga degree)		
ENGL 101	Freshman English I	3
ENGL 102	Freshman English II	3
ENGL 270	Technical Writing	3
	Other World Civilizations General Education or The Arts General Education	3
PSY 101	Introductory Psychology	3
SOC 101	Introductory Sociology	3
HIST 101-105		3
MATH 104	College Algebra and Trigonometry *(or Higher)*	3
	Math Elective *(MATH 106, 108 or 214)*	3
	Physical Education Elective *(PE 146 recommended)*	2
	Health Elective	1
	Liberal Arts Electives	2
	Sub-Total	**32**

B. Core Course Entrance Requirements (NYCC)
Requires a total of 90 credits to enter the program at NYCC. The 90 credits must include the following courses. ***(Note: the other 26 credits may include any courses and may be obtained at Cayuga or another academic institution.)***

BIOL 103	Biological Principles I	4
BIOL 104	Biological Principles II	4
CHEM 103	General Chemistry I	4
CHEM 104	General Chemistry II	4
CHEM 207	Organic Chemistry I	4
CHEM 208	Organic Chemistry II	4
PHYS 103	General Physics I	4
PHYS 104	General Physics II	4
	Sub-total	**32**

Medical Imaging/Radiography

Medical Imaging Technicians/Radiographers help physicians diagnose a disease or injury by producing images that the physician can use as a diagnostic tool. These images include x-rays, computed tomography scans (CTs) and magnetic resonance images (MRIs). Radiographers will have a high level of patient contact and must feel comfortable with the use of computers and high-tech equipment. Students are admitted to SUNY Upstate Medical University on a Fall rotation. Graduates from SUNY Upstate are eligible to be nationally certified through the American Registry of Radiologic Technologists and are qualified for licensure in New York State.

Courses		*Credit Hours*
A. Liberal Arts Requirement (for a Cayuga degree)		
ENGL 270	Technical Writing	3
	Other World Civilizations General Education or The Arts General Education	3
HIST 101-105		3
	Math Elective *(MATH 106, 108 or 214)*	3
	Health Elective	1
	Physical Education Electives	2
	Natural Science Electives *(Any CHEM, BIOL, PHYS, GEOL)*	8
	Liberal Arts Electives *(Cannot be an ART, MUSI, THA, GIS, ENGR or ELEC designation)*	11
	Sub-total	**34**

B. Core Course Entrance Requirement (SUNY Upstate)		
BIOL 203	Anatomy & Physiology I	4
BIOL 204	Anatomy & Physiology II	4
MATH 104	College Algebra and Trigonometry *(or Higher)* ***Recommended 1st semester enrolled***	3
PHYS 103 or PHYS 200 or PHYS 104 or PHYS 201	General Physics I or Physics I – Mechanics or General Physics II or Physics II – Electricity and Magnetism ***Recommended first semester enrolled***	4
CS 110 or CS 120	Exploring Computer Technology or Foundations of Computer Science	3
PSY 101	Introductory Psychology	3
SOC 101	Introductory Sociology	3
ENGL 101	Freshman English I	3
ENGL 102	Freshman English II	3
	Sub-total	**30**

Health Sciences / Concentrations in the Discipline

Medical Technology and Medical Biotechnology

Medical Technologists perform lab tests used to diagnose and treat disease in a clinical setting while the Medical Biotechnologist works in a research setting, providing valuable data for scientific studies. Med Techs and Biotechs will have minimal to no patient contact. Students admitted to SUNY Upstate University in either program begin on a Fall rotation. Graduates from SUNY Upstate are eligible to take one of several national licensing exams.

Courses		*Credit Hours*
A. Liberal Arts Requirements (for Cayuga degree)		
ENGL 270	Technical Writing	3
	Health Elective	1
	Physical Education Electives	1
	Other World Civilizations General Education or The Arts General Education	3
HIST 101-105		3
	Liberal Arts Electives *(Cannot be an ART, MUSI, THA, GIS, ENGR or ELEC designation)*	3
	Sub-total	**14**
B. Core Course Entrance Requirement (SUNY Upstate)		
BIOL 103	Biological Principles I	4
BIOL 203	Anatomy & Physiology I	4
BIOL 204	Anatomy I Physiology II	4
BIOL 104	Biological Principles II	4
BIOL 216	General Microbiology	4
CHEM 103	General Chemistry I	4
CHEM 104	General Chemistry II	4
CHEM 207	Organic Chemistry I	4
MATH 104	College Algebra and Trigonometry *(or higher)*	3
MATH 214	Statistics	3
PSY 101	Introductory Psychology	3
SOC 101	Introductory Sociology	3
ENGL 101	Freshman English I	3
ENGL 102	Freshman English II	3
	Sub-Total	**50**

Physical Therapy

Physical Therapists work with multiple body systems to evaluate patients and determine overall function. They then plan programs that improve functionality by improving conditions such as strength, balance, coordination and range of motion. Therapists require excellent interpersonal skills and work directly with patients. Students are admitted to SUNY Upstate beginning in a summer rotation, and the program will take three years to complete. Entry into SUNY Upstate University requires a bachelor's degree (typically two years beyond the Associate's Degree). Admission to SUNY Upstate is dependent upon the bachelor degree transfer institutional requirements, GRE scores, and work or volunteer experience in Physical Therapy. Graduates from the SUNY Upstate program are eligible to take the National Licensing Exam for Physical Therapy.

Courses		*Credit Hours*
A. Liberal Arts Requirements (for a Cayuga degree)		
ENGL 102	Freshman English II	3
ENGL 270	Technical Writing	3
PSY 101	Introductory Psychology	3
	Other World Civilizations General Education or The Arts General Education	3
HIST 101-105		3
MATH 104	College Algebra and Trigonometry *(or Higher)*	3
	Health Elective	1
	Physical Education Elective	2
	Liberal Arts Electives	3
	Sub-Total	**24**

B. Core Course Entrance Requirements (SUNY Upstate)
Requires bachelor's degree – admission dependent upon the bachelor degree transfer institutional requirements, GRE scores – typically taken your junior year at Upstate, work or volunteer experience in Physical Therapy, and must include the following credits:

BIOL 203	Anatomy & Physiology I	4
BIOL 204	Anatomy & Physiology II	4
BIOL 103	Biological Principles I	4
CHEM 103	General Chemistry I	4
CHEM 104	General Chemistry II	4
PHYS 103 and	General Physics I	
PHYS 104 or	General Physics II	
PHYS 200 and	Physics I – Mechanics	
PHYS 201	Physics II – Electricity and Magnetism	8
ENGL 101	Freshman English I	3
MATH 214	Statistics	3
PSY 212	Developmental Psychology or	
PSY 215	Child Psychology	3
SOC 101	Introductory Sociology	3
	Sub-Total	**40**

Radiation Therapy

Radiation Therapists work with oncologists to deliver radiation to tumor sights without damaging the surrounding tissues. Therapists work very closely with patients and require excellent interpersonal skills. In addition, they must feel confident using computers and highly sophisticated equipment. Students are admitted to SUNY Upstate Medical University on a Fall rotation. Students are required to complete clinical rotations in at least three different radiation departments in two different locations. Clinical rotations are offered in over thirty locations throughout the area. Graduates from SUNY Upstate are eligible to be nationally certified through the American Registry of Radiologic Technologists.

Courses		*Credit Hours*
A. Liberal Arts Requirements (for a Cayuga degree)		
	Math Elective (MATH 106, 108 or 214)	3
ENGL 270	Technical Writing	3
	Other World Civilizations General Education or The Arts General Education	3
HIST 101-105		3
	Natural Science Electives *(Any CHEM, BIOL, PHYS, GEOL)*	4
	Health Elective	1
	Physical Education Electives	2
	Liberal Arts Electives *(Cannot be an ART, MUSI, THA, GIS, ENGR or ELEC designation)*	11
	Sub-total	**30**
B. Core Course Entrance Requirements (SUNY Upstate)		
BIOL 203	Anatomy & Physiology I	4
BIOL 204	Anatomy & Physiology I	4
CHEM 103	General Chemistry I	4
ENGL 101	Freshman English I	3
ENGL 102	Freshman English II	3
PHYS 103 or	General Physics I	
PHYS 200 or	Physics I – Mechanics	
PHYS 104 or	General Physics II	
PHYS 201	Physics II – Electricity and Magnetism ***Recommended first semester enrolled***	4
MATH 104	College Algebra and Trigonometry (or higher) ***Recommended first semester enrolled***	3
PSY 101	Introductory Psychology	3
SOC 101	IIntroductory Sociology	3
	Behavioral or Social Science Elective *(Cannot be a GIS, GEOG or ASL designation)*	3
	Sub-total	**34**

Respiratory Therapy

Respiratory Therapists provide aid to people with breathing issues due to disease or injury. Therapists require excellent interpersonal skills and will work closely with patients as well as their families. Students are admitted to SUNY Upstate Medical University on a Fall rotation. Graduates from SUNY Upstate Medical University are eligible for national certification through the National Board for Respiratory Care and to become licensed in New York State.

Courses		*Credit Hours*
A. Liberal Arts Requirements (for a Cayuga degree)		
ENGL 270	Technical Writing	3
	Other World Civilizations General Education or The Arts General Education	3
HIST 101-105		3
	Math Elective *(MATH 106, 108 or 214)*	3
	Natural Science Electives *(Any CHEM, BIOL,PHYS, GEOL)*	4
	Health Elective	1
	Physical Education Electives	2
	Liberal Arts Electives *(Cannot be an ART, MUSI, THA, GIS, ENGR or ELEC designation)*	14
	Sub-total	**33**
B. Core Course Entrance Requirements (SUNY Upstate)		
CHEM 103	General Chemistry I	4
ENGL 101	Freshman English I	3
ENGL 102	Freshman English II	3
BIOL 203	Anatomy & Physiology I	4
BIOL 204	Anatomy & Physiology II	4
MATH 104	College Algebra and Trigonometry or higher ***Recommended first semester enrolled***	3
BIOL 216	General Microbiology	4
PSY 101	Introductory Psychology	3
SOC 101	Introductory Sociology	3
	Sub-Total	**31**

Nursing A.A.S.

www.cayuga-cc.edu/admissions/process/nursing-admissions/

The Program

The Nursing program at Cayuga Community College prepares the student for entry into the profession of Nursing. Upon graduation, students receive the Associate in Applied Science degree in Nursing and are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). The overall NCLEX-RN passing rate for Cayuga nursing students is consistently exceptional, and exceeds state and national averages.

The curriculum offers a balance of courses in general education and nursing. Students are provided with the theoretical knowledge and clinical practice needed to provide nursing care for individuals throughout the life span. Learning experiences are provided in the classroom, nursing laboratory, and a variety of clinical settings.

Nursing education is available at both the Auburn and Fulton campuses. Both programs admits students every fall. Employment opportunities for entry-level graduates include hospitals, ambulatory care, skilled nursing facilities, and community agencies.

Program Accreditation

Cayuga's Nursing program is fully accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road, Suite 850 Atlanta, GA 30326, www.acenursing.org.

Admission Requirements

Admission to the nursing program is a selective and competitive process.

The following prerequisites must be completed before applying to the Nursing program:

- High school or general equivalency diploma (GED)
- College transcripts (official) if applicable.
- Algebra math proficiency:
  - Testing into Cayuga's MATH 102 (Intermediate Algebra) or higher on the Cayuga placement test, or
  - Completion of Cayuga's MATH 099 (Elementary Algebra) or higher with a minimum grade of C (70%) or
  - Completion of pre-calculus or higher in high school with a minimum grade of C (70%)
- Satisfactory completion (C 70%) of high school or college biology
- Satisfactory completion (C 70%) of high school chemistry with lab (Regents or General) or college Chemistry 101 (CHEM 103 or equivalent)
- Minimum cumulative GPA or overall high school average of 75% or 2.5
- Pre-admission Nursing Entrance Exam (for information and dates of tests, visit **www.cayuga-cc.edu/admissions/process/nursing-admissions/** and see the section under the subhead "Admission to the Program: Steps and Deadlines.") A cumulative test score of 75 is required.
- English language proficiency as demonstrated by compliance with minimum required TOEFL score, required if English is not a first language.
- May be required to consent to background check and/or drug testing upon request by the College or affiliating clinical agency.

Admission Process

January 15 is the post marked deadline to apply for fall admission. For information on dates and times, visit **www.cayuga-cc.edu/admissions/process/nursing-admissions/.** Applicants must complete both the College admission application and the online Nursing admission application. *Admission to the nursing program is a selective and competitive process.*

- Attendance at a Nursing Information Session is strongly recommended.
- The pre-admission Nursing Entrance Exam must be completed by the application postmark deadline.
- Two reference forms must also be submitted.
- Online Nursing application is available October 1 through January 15.
- Applicants will be notified of acceptance decision in March for fall admission.
- Applicants not accepted must reapply to be considered for admission the following year.

Transfer into the Program

Students requesting transfer from another Nursing program must:

- Satisfy the admission criteria stated in the admission requirement.
- Submit a Nursing Transfer Request form at **www.cayuga-cc.edu/admissions/process/nursing-admissions/** to the Director of Nursing.
  The only nursing course that may be accepted for transfer is Nursing 101 pending review of course syllabus. A minimum grade of C+ (77) is required for Nursing 101 credit transfer.
- Apply for admission through the Admissions Office by October 31. **(www.cayuga-cc.edu/admissions/process/nursing-admissions/)**
- Complete the Nursing Department Skill Competency Evaluation with a grade of satisfactory.

Program Progression

- A minimum passing grade of 77 (C+) must be achieved in each Nursing course. A grade less than C+ is considered an unsuccessful attempt.
- A "Satisfactory" clinical grade must be achieved in each clinical Nursing course.
- A minimum passing grade of C+ is required in BIOL 203, 204, and 216 courses.
- A student is limited to one W or unsuccessful attempt in any clinical Nursing course (NURS 101, 102, 214, 215, 216, 217). A second W or unsuccessful attempt in any clinical Nursing course will result in dismissal from the program.
- All required Nursing courses (with the exception of NURS 101) must be taken at Cayuga Community College.
- The following grading system is used by the Nursing faculty:

A	**93–100**	**C**	**73-76**
A-	**90-92**	**C-**	**70-72**
B+	**87–89**	**D+**	**67-69**
B	**83-86**	**D**	**63-66**
B-	**80–82**	**D-**	**60-62**
C+	**77–79**	**F**	**less than 60**

- A student receiving a W or a grade less than C+ in NURS 101 or 102 must reapply for admission to the Nursing program through the Admissions Office in accordance with specified application deadlines.
- A student receiving a W or a grade less than C+ in NURS 214, 215, 216, or 217 must apply for re-entry to the program through the director of Nursing (e-mail alfieri@cayuga-cc.edu). The student must schedule a meeting with the director of Nursing three months prior to the course start date. Academic counseling will be initiated to develop a success plan. Re-entry is granted on a space-available basis and upon compliance with the re-entry procedure.
- A student seeking re-entry to the Nursing program must meet program policies in effect at the date of re-entry.
- Nursing courses must be completed within three years of starting Nursing 101

Legal Limitations for RN Licensure

There is a requirement that the applicant for the licensure exam be of "good moral character." Applicants should be aware that eligibility for licensure as a registered nurse in New York State by persons who have been convicted of a crime (felony or misdemeanor) or have charges pending in any state or country will be determined through an investigation by the New York State Education Office of Professional Discipline. Refer to www.op.nysed.gov/nursing for specific criteria.

Nursing A.A.S.

Nursing Degree Requirements

The following curriculum represents the Nursing course sequence and minimum requirements for the A.A.S. degree in Nursing (total of 64 credit hours).

Note: *Additional fees for Nursing students are listed on page 144.*

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
NURS 100	Nursing Success Strategies	1
NURS 101	Fundamentals of Patient Care	8
BIOL 203	Anatomy and Physiology I	4
		16
Second Semester		
NURS 102	Nursing in Physical/Mental Health I	8
SOC 101	Introduction to Sociology	3
BIOL 204	Anatomy and Physiology II	4
		15
Third Semester		
NURS 214	Family/Community Nursing I	4
NURS 215	Nursing in Physical/Mental Health II	4
BIOL 216	General Microbiology	4
PSY 101	Introductory Psychology	3
		15
Fourth Semester		
ENGL 222	Effective Speech: Group Discussion	3
NURS 216	Family/Community Nursing II	4
NURS 217	Nursing in Physical/Mental Health III	4
NURS 203	Trends in Nursing	1
NURS 207	Pharmacology	3
PSY 212	Developmental Psychology	3
		18
TOTAL CREDIT HOURS		**64**

Learning Experiences

Clinical schedules include days, evenings and occasional weekends. Students must provide their own transportation to clinical facilities. Clinical agencies include but are not limited to Finger Lakes Center for Living, St. Anthony on the Commons, Seneca Hill Manor, Auburn Community Hospital, Upstate University Hospital, Upstate University Hospital at Community General, Lifetime Care, Veterans Medical Center, Oswego Hospital, Hutchings Psychiatric Center, Oswego County Health Department, and Cayuga County Health Department.

Essential Functions and Abilities

These are abilities and behaviors that a nursing student must be able to perform in order to function in a safe manner. It is essential that students of nursing meet the functional requirements outlined on **www.cayuga-cc.edu/academics/schools/health-sciences/nursing**/with or without reasonable accommodations.

Accessibility Services

Nursing students must be able to meet all established academic and clinical requirements to successfully complete the program. In accordance with law and College policy, no qualified individual with a disability shall, on the basis of that disability, be excluded from the program. Cayuga Community College will provide reasonable accommodations to a qualified individual with a disability. The Office of Accessibility Resources is responsible for determining if reasonable accommodations can be identified and for ensuring that such accommodations are provided for students. It is the responsibility of the applicant or student to request the accommodations needed to meet the program's Essential Functions and Abilities (see above). To be eligible for a reasonable accommodation, applicants must provide clear documentation of disability. Arranging for accommodations is a confidential process.

Health Requirements

After being accepted into the Nursing program, the student must show evidence of the following by August 1:

- Completed physical exam and updated annually. The health record must show no physical condition which would limit safe performance of Essential Functions and Abilities (see **www.cayuga-cc.edu/admissions/process/nursing-admissions/**)
- Completed Mantoux test and immunization records
- Compliance with New York State health requirements

CPR Requirement

The student must hold CPR certification throughout the program. American Heart Association certification (BLS for Adults, Infant and Child) and Red Cross certification (Professional Rescuer Course) are valid for two years. Online certification or re-certification is accepted if a competency demonstration is performed. Note: "Heart Saver" and "Community CPR" do not meet the CPR requirement. Evidence of CPR certification must be submitted to the Nursing Education office by August 1.

Graduation Requirement

The candidate for the Associate in Applied Science degree in Nursing must meet the following requirements:

- Completion of 64 credits
- Cumulative average of no less than 2.0 and a minimum grade of "C+" in each Nursing and Biology course.

Transferring into Bachelor's Degree

Cayuga Community College has articulation agreements with a number of baccalaureate nursing programs. For information on these, contact the director of Nursing.

Occupational Therapy Assistant A.A.S. (Effective Fall 2017)

For more Information Contact
Joan Meyers, Director of Occupational Therapy Assistant program
Joan Meyers at jmeyer10@cayuga-cc.edu
www.cayuga-cc.edu/admissions/process/OTA

The Program

Upon completion of the Occupational Therapy Assistant (OTA) program, the graduate will earn an Associate in Applied Science degree and will be prepared as an entry-level OTA.

Program coursework consists of general education classes focusing on biology, English, the social sciences and OTA professional classes. The OTA program incorporates use of classroom, laboratory and fieldwork experiences toward the development of the therapeutic skills and professional behaviors necessary for effective practice.

***Note:** OTA professional classes are offered only on the Fulton campus. Other required courses may be taken on either campus. The program admits students every fall.*

OTA courses are offered one time per year and must be taken in sequence starting in the fall semester. Although the program may be completed in two years, students may opt to take longer to complete their degree requirements.

The OTA curriculum includes 4 required fieldwork rotations. Students travel to community settings for each of the two Clinical and Community Practice fieldwork courses outside of scheduled class times. Two Level II fieldwork courses comprise the final semester of the program, and each consists of 8 weeks of full-time supervised training in a clinical setting. Students gain in-depth experience in delivering occupational therapy services to clients of various ages, backgrounds and conditions. Level II fieldwork may require special housing. Transportation to all fieldwork sites is the responsibility of the student.

***Note:** Students are required to take OTA 120, Clinical and Community Practice IB fieldwork course during the 10-week summer session after successful completion of the second semester of the program. The summer course is offered only in this sequence and is a requirement for continuation as a third-semester student and for graduation within the stated time line. Students may not be eligible for financial aid during the summer session.*

Program Accreditation

The occupational therapy assistant program has applied for accreditation by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449. ACOTE's telephone number c/o AOTA is (301) 652-AOTA and its Web address is **www.acoteonline.org.** The program must be granted Candidacy Status, have a preaccreditation review, complete an on-site evaluation, and be granted Accreditation Status before its graduates will be eligible to sit for the national certification examination for the occupational therapy assistant, administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). In addition, all states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. Note that a felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure.

Background Checks:

- Health care agencies may require criminal background checks, drug testing and fingerprinting for OTA students completing fieldwork under their supervision.
- Eligibility for licensure as an OTA in New York State by anyone who has been convicted of a crime or who has charges pending in any state or country will be determined through an investigation by the New York State Education Office of Professional Discipline.
- In order to obtain licensure to practice as an OTA in New York Stage, graduates must pass the national certification examination offered by the National Board for Certification in Occupational Therapy. History of a felony or misdemeanor may impact a graduate's eligibility to sit for the national certification examination. If you have a criminal history, it is strongly recommended that you complete a character review before starting the OTA program.
- To access certification information, go to **www.NBCOT.org** and click on the certification candidates tab. You may contact NBCOT at 12 South Summit Avenue Suite 100, Gaithersburg, MD 20877. (301) 990-7979 or info@nbcot.org.

Graduation Requirement

The candidate for the Associate in Applied Science degree in Occupational Therapy Assistant must meet the following requirements:

•Completion of 64 credits
•Cumulative average of no less than 2.5
•Minimum grade of C in each OTA and Biology course

Admission Requirements

New full- and part-time students seeking admission to the OTA program must file both a Cayuga Community College application and an application to the OTA program. Preadmission requirements pertaining to medical or disabling conditions are prohibited by regulation of the Americans with Disabilities Act. For students with documented functional limitations, reasonable accommodations will be made through Cayuga's Office of Accessibility Resources.

Admission to the OTA program is selective. Attendance at an OTA information session is encouraged. Dates for information sessions will be made available on the OTA page of the college website. The following pre-requisites must be completed before applying to the OTA program:

The following pre-requisites must be completed before applying to the OTA program:

- High school or general equivalency diploma (GED);
- High school average of B (80%) or higher OR cumulative college GPA 2.5 or higher;
- Applicants who possess a GED will be accepted into the Liberal Arts and Sciences: Math and Science major until a college grade point average is established. Once a GPA has been established, students can then apply to the OTA program;
- Successful completion (grade C, 73% or higher) of high school or college biology with a lab;
- Successful completion (grade C, 73% or higher) of high school or college chemistry with a lab OR physics with a lab;
- Testing into Cayuga's Math 102 or higher on the Cayuga placement exam or completion of Math 099 (grade C, 73% or higher) or higher or have taken Math 099 or higher at another institution;
- Testing or placing into Cayuga's English 101-Freshman English 1 or completion of English 101 (grade C, 73% or higher) or higher;
- Satisfactory scores on the ATI TEAS entrance exam due by the March 1st application deadline. Cost of exam is incurred by the applicant. Specific dates for the ATI TEAS are to be determined. Please check the OTA page of the college website for further details;
- Each OTA program applicant is responsible for assessing his or her own computer competency. Students must possess basic proficiency in computer use, including the ability to use databases and search engines to access information, word processing for writing, and email for attaching files as needed;
- Access to a reliable internet connection is required throughout the program.

Admissions Process:

- Must complete and submit a Cayuga Admissions Application and an OTA program application, including official transcripts.
- Applications received by the March 1st deadline will take priority. Applications will continue to be reviewed after March 1st until the program is full.
- Two professional references are required by the March 1st deadline.
- Applicants not accepted must reapply to be considered for admission the following year.

Course Sequence and Program Length

The curriculum is a recommended two-year course sequence. Students may opt to complete the program at a slower pace; however, all students are required to complete all graduation requirements within four years from the start of enrollment in the first OTA course. OTA 210 and OTA 211 (both level II fieldwork courses) must be completed within 18 months of completing the academic portion of the curriculum.

Requests for credit for experiential learning or transfer of OTA professional courses from another OTA program are not being considered at this time.

OTA courses are offered one time per year and must be taken in sequence starting in the fall semester.

COURSES		CREDIT HOURS
Fall Semester 1		
BIOL 203	Anatomy and Physiology I*	4
ENGL 101	Freshman English I	3
PSY 101	Introductory Psychology	3
OTA 101	Introduction to Occupational Therapy*	2
OTA 103	Occupational Performance Across the Lifespan*	3
OTA 105	Clinical Conditions and Medical Terminology*	2
		17
Spring Semester 1		
BIOL 204	Anatomy and Physiology II*	4
ENGL 270	Technical Writing	3
OTA 110	Clinical and Community Practice IA*	1.5
OTA 111	Human Movement for Occupation*	2
OTA 113	Occupational Therapy Process: Birth to Adolescence*	4
OTA 115	Technology and Adaptation Across the Lifespan*	2
OTA 117	Professional Communication Skills for the OTA*	1
		17.5
Summer Semester 1		
OTA 120	Clinical and Community Practice IB*	1.5
		1.5
Fall Semester 2		
PSY 206	Abnormal Psychology	3
SOC 101	Introductory Sociology	3
OTA 201	Occupational Therapy Process: Adults and Elders*	2
OTA 203	Occupational Therapy Process: Mental Health Across the Lifespan*	2
OTA 205	Occupational Therapy Process: Physical Health Across the Lifespan*	4
OTA 207	Professional Transition and Management*	2
		16
Spring Semester 2		
OTA 210	Fieldwork II A*	6
OTA 211	Fieldwork II B*	6
		12
TOTAL CREDIT HOURS		**64**

*Minimum grade of C required to complete graduation requirements.

School of Media and the Arts: SOMA

Professor Steven Keeler, Division Chair
315-294-8582 • keeler@cayuga-cc.edu

Cayuga provides exceptional opportunities for students who are ready to explore, create, perform, and communicate.

Cayuga's School of Media and The Arts offers degree opportunities including AAS, AS and certificates. As soon as you choose a degree program, you'll begin to concentrate your studies in a specific area, and shape your education to increase depth and breadth of study.

Degrees

LIBERAL ARTS & SCIENCES/ HUMANITIES & SOCIAL SCIENCES AA*
- **Literature†**
- **Music**
- **Theatre**
- **Writing†**

STUDIO ART & DESIGN AS
- **Ceramics**
- **Graphic Design**
- **Painting and Drawing**
- **Photography**
- **Printmaking**

AUDIO PRODUCTION A.A.S.
- **Music Production option**

MEDIA PRODUCTION AAS
- **Broadcast Journalism**
- **Film and Cinema Studies**
- **Video/Digital Film Production**

TELECOMMUNICATIONS TECHNOLOGY AAS

* Degree can be completed entirely at Auburn or Fulton campus (select concentrations are in Fulton).

† Degree can be completed entirely online (not all concentrations are available online or in Fulton).

Liberal Arts and Sciences: Humanities and Social Sciences A.A.

This program is designed for students who plan to transfer and continue their studies in the humanities or social sciences, leading to a bachelor's degree.

Degree Requirements

General Education requirements must be met before the A.A. degree will be granted. For details on General Education requirements, see pages 72-73.

Credit Requirements

A minimum of 62 credits but fewer than 120 credits with an average grade of C (2.000).

Curriculum Requirements

The course of study leading to this degree should be an organized curriculum comprised primarily of courses in the Liberal Arts and Sciences.

English and Humanities

18 credit hours

Courses	*Credit Hours*
ENGL 101-102	6
ENGL 201-206	3
Humanities	3
Electives	6

Humanities: Art, Foreign Languages, Music, Philosophy, Theatre Arts. ENGL 101 or higher will fulfill English and Humanities requirement.

Behavioral and Social Sciences

12 credit hours

At least 3 credit hours in
ANTH 101, ECON 201, ECON 202, PSY 101,
or
SOC 101

3 credit hours in
HIST 101-105

6 credit hours in
BEHAVIORAL AND SOCIAL SCIENCES:
Anthropology, Economics, Geography, Geographic Information Systems(GIS 111, GIS 205 only), History, Political Science, Psychology, Sociology.

Natural Sciences and Mathematics

9-12 credit hours

To fulfill the mathematics/science requirement for the A.A. Liberal Arts degree, select one of the following:

OPTION 1: 3-4 credit hours in math and *two* 4-credit hour science courses.

OPTION 2: 3-4 credit hours in math and *three* 3-credit hour science courses

OPTION 3: 6-8 credit hours in math and *one* 3-4 credit hour science course.
NATURAL SCIENCES:
biology, chemistry,geology, GIS 101, and physics.

For Options 1 and 2
MATH 102 or higher (except 115 or 116) will fulfill math requirement.

For Option 3
MATH 115 and 116 will fulfill math, General Education, and computer literacy requirements.

MATH 101 or higher (except 115 or 116) will fulfill math requirement.

(MATH 101, BIO 213, and CHEM 108 will not satisfy General Education requirements.)

Liberal Arts Electives

9 credit hours

See page 75 for definition of Liberal Arts electives.

Other World Civilizations / The Arts

3 credits from either
Other World Civilizations
or
The Arts
See page 73 for a listing of acceptable course choices.
If any listed course has been taken to meet another requirement, then the "Other World Civilizations or The Arts" requirement has been met.

Electives

8-11 credit hours

Adequate to meet a total of 62 credit hours
No more than 6 credit hours total in MUSI 100 and Physical Education courses carrying fewer than 3 credits may be applied toward the A.A. degree.

Students planning to seek a Bachelor of Arts degree should complete a foreign language through the intermediate level.

Health and Physical Education

1 credit hour in Health
2 credit hours in Physical Education

Liberal Arts and Sciences: Humanities and Social Sciences Concentrations in the Discipline

Literature

The concentration in Literature is designed for transfer preparation toward a bachelor's degree in English Studies or English Education.

Within an A.A. degree this concentration requires a minimum of 4 literature courses. Students planning to transfer to a baccalaureate program should contact their future school as early as possible to determine the best course selection from those listed.

All courses listed below may be used as English, Liberal Arts, or free electives.

Choose 2-4 courses from English 201-207:

ENGL 201 World Literature I*
ENGL 202 World Literature II*
ENGL 203 American Literature to the Late 19th Century
ENGL 204 American Literature Late 19th Century to Present
ENGL 205 English Literature to the 19th Century †
ENGL 206 English Literature 19th Century to Present †
ENGL 207 Shakespeare

Choose 0–2 from the following specialized courses:

ENGL 209 Children's Literature
ENGL 226 Contemporary American Novels
ENGL 227 Poetry: Poems and Poets
ENGL 230 The Bible as Literature
ENGL 235 Women and Writing
ENGL 237 Film and Literature
ENGL 239 Special Topics
ENGL 240 Mythology*
ENGL 245 African-American Literary Traditions
ENGL 247 Native American Myth, Legend, Literature
ENGL 250 Folklore
ENGL 255 Science Fiction and Fantasy

*Meets General Education requirement for Other World Civilizations/The Arts.
† Meets General Education requirements for Western Civilization.

Music

This concentration is designed for students who plan to transfer into Music programs at four-year colleges and universities.

Choose the following to fulfill 9 credits of humanities and 3-6 credits of liberal arts or free electives

Courses		*Credit Hours*
MUSI 101	Music Appreciation	3
MUSI 105	Music Theory	3
MUSI 200	Applied Music Lessons	2
MUSI 102	Jazz	3
or		
MUSI 111	Rock	3
MUSI 115	Jazz Ensemble	3
or		
MUSI 100	College Chorus	1-3

Theatre

This concentration is designed for students who plan to transfer into Theatre programs at four-year colleges and universities, students who wish to transfer as English majors or other liberal arts majors, and students who are interested in obtaining practice in working in theatre as actors, directors, and technicians.

Choose the following courses to fulfill 3 credit hours of Humanities requirements and 6 credit hours of English or Humanities elective requirements:

THA 101 Introduction to Theatre*
THA 113 Introduction to Technical Theatre*
THA 152 Basic Acting*

In addition, students will elect 1-2 of the following, for 3 – 4 hours of Liberal Arts elective credit:

ENGL 207 Shakespeare
THA 110 Theatre Practicum (1-3 credits)
THA 165 Selected Topics in International Theater: The London Theater
THA 210 Creating a Character
THA 238 Special Topics in Theatre (1 credit)
THA 239 Special Topics in Theater (3 credits)

* Meets General Education requirement for The Arts

Writing

Students in this concentration experience varied writing classes in order to understand fundamental differences between writing disciplines and/or to help select writing programs upon transfer. ***(Within an A.A. degree this concentration requires a minimum of three writing courses beyond English 101 and 102 totaling 9-13 credits.)***

Required First-Semester

Courses		*Credit Hours*
ENGL 120	Being Writers	1

Choose at least three from the writing courses offered below:

ENGL 104	Advanced Expository Writing	3
ENGL 110	Writing Research in the Discipline†	1
ENGL 121	Being Writers II	1
ENGL 211	Creative Writing*†	
ENGL 217	Writing for the Media†	
or		
TELC 204	Journalism Practicum	3
ENGL 238	Selected Topics† *(if on topic of language or writing)*	1
ENGL 239	Special Topics† *(if on topic of language or writing)*	
ENGL 260	Professional Writing Practicum†	
ENGL 270	Technical Writing†	
	One Writing Intensive (WI) course	3-4*

*Designates courses that meet the General Education requirements for Other Civ/Arts

† Under current catalog guidelines may be used as an English or Liberal Arts elective

Studio Art and Design A.S.

This is a transfer program for students planning a career in the visual arts.

Degree Requirements

Students will complete traditional art foundation courses (drawing, painting, design, and art history) and explore studio disciplines in which they may concentrate upon transfer to a four-year institution. Emphasis is placed on the student's creative and aesthetic development and the professional application of formal design skills.

General Education requirements must be met prior to granting of the A.S. degree. For details on General Education requirements, see pages 72-73.

Concentrations Available

Four concentrations are offered for Studio Art and Design students who wish to focus on specific media in their degree program. These concentrations are listed on the following page, along with courses required for completion. Students may select any studio course to fulfill studio elective requirements. Note: To earn the Studio Art and Design degree, it is not necessary to complete a concentration.

Career Possibilities

Advertisements, packaging, textiles, book covers, posters, furniture, architectural forms, and more are designed by professionals trained in studio art. Students will be encouraged to consider how to apply their skills to industry, freelance opportunities, or the creation of an artist-operated business.

Transfer Information

Students planning to transfer should consult their advisor and/or a transfer counselor in the Centers for Student Engagement and Academic Advisement for more information. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ART 101	Art History: Ancient to Gothic	3
ART 112	Two-Dimensional Design	3
ART 106	Expressive Drawing	3
ENGL 101	Freshman English I	3
MATH 102 or higher		3
	Physical Education	1
		16
Second Semester		
ART 102	Art History: Renaissance to Modern	3
ART 104	Painting	3
ART 160	Life Drawing	3
ENGL 102	Freshman English II	3
	General Education Social Sciences	3
	Physical Education	1
		16
Third Semester		
ART 113	Three-Dimensional Design	3
	Art Elective	3
	Art Elective	3
	General Education Science	3
	HIST 101-105	3
	Health	1
		16
Fourth Semester		
	Art Elective	3
	Art Elective	3
	General Education Elective	
or	Free Elective	3
	General Education Elective	
or	Free Elective	3
	General Education Elective	
or	Free Elective	3
		15
TOTAL CREDIT HOURS		**63**

Math, Science and Behavioral/Social Science Electives are designed to fulfill the following general education requirements: Mathematics, Natural Science, Social Science, and American History/Western Civilization. Please consult with an academic advisor for the appropriate courses.

General Education Requirement or Free electives are designed to fulfill the remainder of the College's general education requirements when necessary.

Studio Art and Design Concentrations in the Discipline

Ceramics

Two studio courses of student's choice

ART 131	Introduction to Ceramics
ART 231	Ceramic Sculpture

Graphic Design

ART 215	Computer Graphics
ART 252	Photoshop
ART 253	Digital Photography
ART 255	Screen Printing

Painting and Drawing

One studio course of student's choice

Art 105	Painting II
Art 107	Expressive Drawing II
Art 260	Printmaking Workshop

Photography

One studio course of student's choice

ART 250	Introduction to Photography
ART 252	Photoshop
ART 253	Digital Photography

Printmaking

One studio course of student's choice

ART 250	Introduction to Photography
ART 255	Screen Printing
ART 260	Printmaking Workshop

Audio Production A.A.S.

This program is designed to prepare students for entry-level positions in audio and radio production.

Degree Requirements

Upon completion of the program, students will be able to perform audio functions including music and sound recording and audio programming, mixing, re-recording, splicing, dubbing and over-dubbing, setting up and connecting sound reinforcement equipment on location, determining site characteristics, and mixing live audio.

For more information about Cayuga's Telecommunications programs, visit the Telcom web site at **www.telcomcayuga.com.**

The curriculum listed on this page represents the minimum coursework required for the A.A.S. degree in Telecommunications: Audio-Radio Production. Some required courses are offered only in the evening.

Academic Preparation

Readiness for ENGL 101

Career Possibilities

Graduates may work in the music recording industry, for radio stations, and in television, motion picture, and video production as recording engineers, audio engineers, audio operators, board operators, sound technicians, or mixers.

Transfer Information

Cayuga has articulation agreements for related programs offered by Roy H. Park School of Communications at Ithaca College and by SUNY College at Fredonia. For these and other transfer institutions, students should contact their advisor and/or a transfer counselor in the Centers for Student Engagement and Academic Advisement for more information. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
COMM 101	Introduction to Mass Media	3
TELC 104	Audio Video Production Techniques I	3
	Math/Science	3
	Health	1
	Physical Education	1
		14
Second Semester		
ENGL 102	Freshman English II	3
COMM 201	Media and Society	3
MUSI 170	Music Preparation for Audio Professionals	3
TELC 221	Audio Editing	4
	Behavioral/Social Sciences	3
	Physical Education	1
		17
Third Semester		
COMM 207	Video Production I	4
TELC 230	Music/Multi-Track Recording	4
TELC 205	Practicum in Radio Operations	3
TELC 220	Advanced Audio Production	3
	Math/Science	3
		17
Fourth Semester		
TELC 231	Advanced Recording Techniques	4
COMM 208	Video Production II	4
TELC 275	Internship in Radio and TV	3
	Behavioral/Social Sciences	3
		14
TOTAL CREDIT HOURS		**62**

Audio Production A.A.S. Music Production Option

The Music Production Option is designed for recording students who have an interest or skills in music and wish to apply audio production techniques specifically to that field.

Degree Requirements

Students who receive a degree in Audio-Radio Production with this option may wish to pursue a career in music recording or transfer to a four-year program in music production. Students who wish to transfer should consult with the four-year school for planning and preparation.

For more information about Cayuga's Telecommunications programs, visit the Telcom web site at www.telcomcayuga.com.

Academic Preparation

Readiness for ENGL 101

Career Possibilities

Graduates may work in the music recording industry, for radio stations, and in television, motion picture, and video production as recording engineers, audio engineers, audio operators, board operators, sound technicians, or mixers.

Transfer Information

Cayuga has articulation agreements for related programs offered by Roy H. Park School of Communications at Ithaca College and by SUNY College at Fredonia. For these and other transfer institutions, students should contact their advisor and/or a transfer counselor in the Centers for Student Engagement and Academic Advisement for more information. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
COMM 101	Introduction to Mass Media	3
TELC 104	Audio Video Production Techniques I	3
MUSI 101	Music Appreciation	3
	Health	1
	Physical Education	1
		14
Second Semester		
ENGL 102	Freshman English II	3
COMM 201	Media and Society	3
	Math/Science Elective	3
	Behavioral/Social Sciences	3
MUSI 170	Music Preparation for Audio Professionals	3
	Physical Education	1
		16
Third Semester		
COMM 207	Video Production I	4
TELC 230	Music/Multi-Track Recording	4
MUSI 102	Jazz History	
or		
MUSI 111	Rock History	3
TELC 220	Advanced Audio Production	3
	Math/Science	3
		17
Fourth Semester		
TELC 231	Advanced Recording Techniques	4
COMM 208	Video Production II	4
TELC 275	Internship in Radio and TV	3
MUSI 154	Piano	
or		
MUSI 158	Guitar	
or	Telecommunications	
or	Communications Elective	
or	Music Elective*	3
	Behavioral/Social Sciences	3
		17
TOTAL CREDIT HOURS		**64**

* MUSI 154 or 158 is required unless students pass a proficiency test. Students passing the proficiency test will enroll in a MUSI or TELC elective.

Media Production A.A.S.

This program is designed to prepare students for employment in the communications/media industry.

Degree Requirements

Upon completion, students will be able to perform typical management, production, operations, and announcing functions. The program includes work in the College's FM stereo radio station and broadcast-quality color television studio. Internships are required in area industry facilities.

For more information about Cayuga's Telecommunications programs, visit the Telcom web site at **www.telcomcayuga.com.**

The courses below represent the minimum requirements for the A.A.S. degree in Telecommunications: Radio and Television Broadcasting. Some required courses are offered only in the evening.

Academic Preparation

Readiness for ENGL 101

Career Possibilities

Graduates work as directors, producers, camera operators, technical directors, video editors, industrial video specialists, electronic news gathering specialists, reporters and newscasters, disc jockeys, managers, advertising salespersons, audio engineers, and sound reinforcement technicians.

Transfer Information

Cayuga has articulation agreements for related programs offered by Roy H. Park School of Communications at Ithaca College and by SUNY College at Fredonia. For these and other transfer institutions, students should contact their advisor and/or a transfer counselor in the Centers for Student Engagement and Academic Advisement for more information. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
COMM 101	Introduction to Mass Media	3
TELC 104	Audio Video Production Techniques I	3
	Math/Science Elective	3
	Health	1
	Physical Education	1
		14
Second Semester		
ENGL 102	Freshman English II	3
TELC 105	Video Editing	4
TELC 114	Lighting	3
	Telecommunications	
or	Communications Elective	3
COMM 201	Media and Society	3
	Physical Education	1
		17
Third Semester		
COMM 207	Video Production I	4
	Telecommunications	
or	Communications Elective	3
	Behavioral/Social Sciences	3
	Math/Science Elective	3
	Special Interest Elective*	3
		16
Fourth Semester		
COMM 208	Video Production II	4
TELC 275	Internship in Radio and TV	3
	Behavioral/Social Sciences Elective	3
	Liberal Arts Elective	3
	Special Interest Elective*	3
		16
Total Credit Hours		**63**

* Course related to student's career objective; selection must be approved by faculty advisor.

Media Production Concentrations in the Discipline

The concentrations below are designed for students who wish to emphasize experience in a particular field of telecommunications or electronic media. Concentrations are not majors, and are not required to complete a degree.

Requirements

Students must consult with an academic advisor before scheduling these courses. These concentrations are designed to fulfill elective requirements within the Telecommunications: Radio/Television Broadcasting degree. They are only open to students enrolled in the Telecommunications: Radio/Television Broadcasting degree program.

Additional Information

For more about Cayuga's Telecommunications programs, visit the department's web site at **www.telcomcayuga.com.**

Broadcast Journalism

This concentration is designed for students with an interest in broadcast announcing, sportscasting, broadcast journalism, or journalism.

Courses		*Credit Hours*
TELC 106	Radio and Television Announcing	3
TELC 212	Broadcast Journalism	3
ENGL 217	Media Writing	3
TELC 204	Journalism Practicum	3
or		
TELC 205	Radio Practicum	3

Film and Cinema Studies

Courses		*Credit Hours*
COMM 103	Introduction to the Moving Image	3
ENGL 237	Film and Literature	3
Choose from one of the following:		
TELC 190	Scriptwriting for Film and TV	3
TELC 192	Script Analysis	3

Video/Digital Film Production

This concentration is designed for students wishing to enhance their skills in the design and production of video and audio content.

Courses		*Credit Hours*
COMM 103	Introduction to the Moving Image	3
TELC 140	Analysis of Broadcast Systems	3
TELC 180	Video Field Production	3
Choose from one of the following:		
TELC 190	Scriptwriting for Film and TV	3
or		
TELC 192	Script Analysis	3

Telecommunications Technology A.A.S.

This program prepares students for employment in telecommunications and related industries.

Degree Requirements

Students learn to operate, install, maintain, and repair audio, video, RF, and specialized communications equipment used in the media and telecommunications industries.

Students work on engineering, operations, and production projects in a professional environment. Cayuga's facilities include video studio diagnostic stations, electronics labs, and a fully operational radio lab used for technical instruction. Internships are required in area industry facilities. Program graduates are eligible to receive certification as broadcast technologists from the Society of Broadcast Engineers.

The curriculum listed on this page represents the minimum coursework required for the A.A.S. degree in Telecommunications Technology. Some required courses are offered only in the evening.

Academic Preparation

Required: algebra; readiness for ENGL 101.

Career Possibilities

Graduates are employed as telecommunications specialists in a variety of fields and as radio, television, audio, and cable TV engineers and technicians.

Transfer Information

Students should contact their advisor and/or the transfer counselor in the Centers for Student Engagement and Academic Advisement for information on transfer planning. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
(Available in Auburn and/or Fulton)		
ENGL 101	Freshman English I	3
MATH 102	Intermediate Algebra	3
ELEC 101	Electrical Circuits	4
ELEC 105	Introduction to Digital Computers	4
TELC 104	Audio Video Production Techniques I	3
		17
Second Semester		
(Available in Auburn and/or Fulton)		
ENGL 102	Freshman English II	3
ELEC 102	Basic Electronics	4
TELC 102	Introduction to Telecommunications	3
CS 110	Exploring Computer Technology	3
	Health	1
	Physical Education	1
		15
Third Semester		
(Available in Auburn)		
TELC 140	Analysis of Broadcast Equipment Systems	3
TELC 220	Advanced Audio Production	3
COMM 207	Television Production I	4
ELEC 201	Intermediate Electronics	4
		14
Fourth Semester		
(Available in Auburn)		
TELC 260	Broadcast Systems Maintenance	3
TELC 275	Internship Radio/TV	3
ELEC 208	RF Communications	4
CS 180	Principles of Data Communications	3
CS 225	Introduction to Networks	3
	Physical Education	1
		17
TOTAL CREDIT HOURS		**63**

School of Social Sciences and Education

Professor William Prosser, Division Chair
315-294-8416 • prosser@cayuga-cc.edu

Degree opportunities include the Associate in Arts, Associate in Science, and Associate in Applied Science degrees, and one year certificate programs. As soon as you choose a degree program, you'll begin to concentrate your studies in a specific area, and shape your education to increase depth and breadth of study.

Degrees

CRIMINAL JUSTICE – CORRECTIONS AAS*†

CRIMINAL JUSTICE – POLICE AAS*†

EARLY CHILDHOOD EDUCATION AAS

LIBERAL ARTS & SCIENCES: ADOLESCENCE EDUCATION AA*

- Biology
- Chemistry
- Earth Science
- English
- History/Social Science
- Mathematics

LIBERAL ARTS & SCIENCES: CHILDHOOD EDUCATION AA*

- English
- General Science
- History/Social Sciences

LIBERAL ARTS & SCIENCES: HUMANITIES AND SOCIAL SCIENCES AA*†

- Criminal Justice†
- Early Childhood
- Education
- History
- Psychology†

Certificate Programs

Criminal Justice*
Corrections Administration
Early Childhood

* Degree can be completed entirely at Auburn or Fulton campus (select concentrations available in Fulton).

† Degree can be completed entirely online (select concentrations available online and in Fulton).

Criminal Justice: Corrections A.A.S.

The Criminal Justice – Corrections program builds a critical foundation for employment in the field of institutional or community-based corrections. A strong base in social and/or behavioral science curriculum will also be provided. The program is devised for students to enter the corrections field in an entry-level position or to transfer to a four-year institution offering a criminal justice or closely related major if desired.

Degree Requirements

The program provides a broad insight into the total correctional process with emphasis on the areas of probation and parole.

The curriculum listed on this page represents the minimum coursework required for the A.A.S. degree in Criminal Justice: Corrections. Any exception in major courses must have the written consent of the Chair of the Division of Behavioral/Social Sciences, Business, Criminal Justice, Teacher Education, Physical Education/Health.

The candidate for the A.A.S. in Criminal Justice: Corrections program must meet the following requirements:

- Completion of all required credits – 63 total
- Cumulative average of no less than a 2.0

Career Possibilities

Career opportunities will vary including, but not limited to: Local, state and federal correctional institutions as Correction Officers, Supervisor of Correctional Officers, juvenile detention centers, and positions within alternative programs such as Victims Advocate, Case Management, or Case Counselor. Community-based correction positions such as Probation Officer or Parole Officer begins with an A.A.S. at Cayuga, but will require transfer to a four-year institution for additional education.

NOTE:

1. Civil service exams are required for most institutional correctional positions as well as certain physical requirements and an extensive background investigation.
2. Additional education and/or training may be required for certain institutional and/or community-based correction professions.

Transfer Information

Students planning to transfer to a four year institution degree program in Criminal Justice or a related degree program should contact their advisor, Cayuga's transfer counselor, or the Criminal Justice Coordinator to plan the most appropriate course sequence for optimal transferability. It is highly suggested that students who wish to transfer complete their current degree program in its entirety unless they have met with the appropriate staff and a more comprehensive plan is attained.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
CJ 111	Introduction to Justice Systems	3
CJ 115	Criminal Law	3
PSY 101	Introductory Psychology	3
	Math/Science	3
	Health	1
	Physical Education	1
		17
Second Semester		
ENGL 102	Freshman English II	
or		
ENGL 270	Technical Writing	3
CJ 112	Organization and Administration of Justice Systems	3
SOC 101	Introductory Sociology	3
	Behavioral Sciences	3
	Math/Science*	3
	Physical Education	1
		16
Third Semester		
ENGL 221	Effective Speech: Public Address	
or		
ENGL 222	Effective Speech: Group Discussion	3
CJ 117	Juvenile Delinquency	3
CJ 121	Institutional Corrections	3
	Behavioral/Social Sciences	3
	Elective**	3
		15
Fourth Semester		
CJ 211	Case Studies in Criminal Behavior	3
CJ 213	Community Corrections	3
CJ 220	Criminology	3
	Electives	6
		16
TOTAL CREDIT HOURS		**63**

* ENGL 102 is strongly recommended for transfer students.

** SPAN 121 (Spanish for Public Safety Officials) recommended.

*** CHEM 108 (Forensic Sciences) may be used as a science requirement.

Criminal Justice: Police A.A.S.

The Criminal Justice: Police program builds a critical foundation employment in the field of law enforcement or criminal law. The program provides a practical and theoretical basis for employment in law enforcement or an investigative field, or for transfer to a four-year institution offering a criminal justice or closely related major if desired.

Degree Requirements

The curriculum listed on this page represents the minimum coursework required for the A.A.S. degree in Criminal Justice: Police. Any exception in major courses must have the written consent of the chair of the Division of Behavioral/Social Sciences, Business, Criminal Justice, Teacher Education, Physical Education/Health.

Candidates for the A.A.S. in Criminal Justice: Police must meet the following requirements:

- Completion of all required credits – 63 total
- Cumulative average of no less than a 2.0

Career Possibilities

Career opportunities will vary, including, but not limited to: local, state or federal law enforcement officer (i.e.: City Police Officer, County Deputy Sheriff, State Police, or Federal Agent), Peace Officer, Conservation Officer, Security Officer, Campus Safety/ Security Officer, U.S. Secret Service, U.S. Coast Guard, Private Investigation, or Department of Homeland Security.

NOTE:

1. Civil service exams are required for most institutional correctional positions as well as certain physical requirements and an extensive background investigation.
2. Additional education and/or training may be required for certain law enforcement professions.

Transfer Information

Students planning to transfer to a four-year degree program in Criminal Justice or a related degree program should contact their advisor, Cayuga's transfer counselor, or the Criminal Justice Coordinator to plan the most appropriate course sequence for optimal transferability. It is highly suggested that students who wish to transfer complete their current degree program in its entirety unless they have met with the appropriate staff and a more comprehensive plan is attained.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
CJ 111	Introduction to Justice Systems	3
CJ 115	Criminal Law	3
PSY 101	Introductory Psychology	3
	Math/Science	3
	Health	1
	Physical Education	1
		17
Second Semester		
ENGL 102 or	Freshman English II	
ENGL 270	Technical Writing	3
CJ 112	Organization and Administration of Justice Systems	3
CJ 119	Criminal Investigations	3
CHEM 108	Forensic Science	3
	Behavioral Sciences	3
	Physical Education	1
		16
Third Semester		
ENGL 221 or	Effective Speech: Public Address	
ENGL 222	Effective Speech: Group Discussion	3
CJ 117	Juvenile Delinquency	3
CJ 123	Laws of Evidence	3
	Social Sciences	3
	Elective*	3
		15
Fourth Semester		
CJ 220	Criminology	3
CJ 222	Constitutional Law	3
	Behavioral/Social Sciences	3
	Electives	6
		16
TOTAL CREDIT HOURS		**63**

* ENGL 102 is strongly recommended for transfer students.

** SPAN 121 (Spanish for Public Safety Officials) recommended.

Early Childhood A.A.S.

This program is designed for students interested in child care, preschool, and early childhood education.

Degree Requirements

The curriculum listed on this page is required for the A.A.S. degree in Early Childhood.
Students must have a cumulative GPA of 2.3 or higher to enroll in field experience coursework (ECH 103 & 104).
Transfer credit for Early Childhood or Education courses will only be granted after transcript review by the Education Coordinator.

Graduation Requirements

In order to graduate with the A.A.S. degree in Early Childhood, students must demonstrate competency (a grade of C- or higher) in five Key Assessments. The Key Assessments are completed in each of the core early childhood courses (ECH 101, 102, 103, 104, 110, and 111 and BEH 101). This requirement also applies to students who have transferred credits to Cayuga from another college. Please contact the Early Childhood coordinator if you have any questions.

Program Accreditation

This degree is accredited by the National Association for the Education of Young Children (NAEYC), 1313 L. Street, NW, Washington, DC 20005, **www.naeyc.org.**

General Information

For individuals interested in working with children, Cayuga also offers a Liberal Arts A.A. degree with an Early Childhood concentration, as well as an Early Childhood Certificate, and Teacher Assistant and Child Development Associate (CDA) coursework. In addition, the College also offers Liberal Arts/Adolescence Education, Liberal Arts/Childhood Education and an Education concentration.

Transfer Information

Students planning to transfer into a four-year degree program in Early Childhood should contact their advisor, the College's transfer counselor, or the Early Childhood coordinator to plan the most appropriate course sequence for optimum transferability. It is suggested that students who wish to transfer into four-year degree programs complete the A.A. degree in Liberal Arts with an Early Childhood concentration.

Additional Information

Students must be able to satisfactorily and safely perform duties associated with the care and education of children from birth to eight years of age. Technical Standards for the degree are available from the Education Coordinator or from the College website at **www.cayuga-cc.edu/academics/wp-content/uploads/sites/9/2016/01/Technical-Standards-Education-Programs.pdf**

Students are required to have police and child abuse clearances and physical examinations prior to beginning their field experience classes (ECH 103 and 104).

Note: Students with certain criminal histories will not be able to satisfy field experience requirements for the completion of the degree. In addition, students are required to submit to alcohol and/or drug testing upon request by either the College or any of the cooperating field placement sites. Students who test positive are subject to removal from the field placement and will therefore not be able to satisfy requirements for the completion of the degree. Refusal to submit to the test will result in the student being asked to leave the field placement site and may result in dismissal from the course and/or the program.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
ART 103	Essentials of Art	3
PSY 101	Introductory Psychology	3
ECH 110	Methods and Materials in Early Childhood Education*	3
EDU 120	Technology for Teachers	1
CAY 101	Foundations of College Success	3
		16
Second Semester		
BEH 101	Language and Literacy Development*	3
ENGL 221	Effective Speech: Public Address	3
ECH 111	Infants and Toddlers*	3
PSY 215	Child Psychology	3
PE 145	First Aid	1
PE 199	Physical Education for Children	2
		15
Third Semester		
ENGL 209	Children's Literature	3
ECH 101	Introduction to Early Childhood Education*	3
ECH 103	Early Childhood Field Experience I*	3
ECH 222	Teaching Math and Science*	3
HIST 103	Pre-History and Early American History	3
PSY 217	Introduction to Children with Exceptionalities	3
		18
Fourth Semester		
BIOL 209	Basic Nutrition	3
HLTH 103	Health	1
ECH 102	Curriculum and Assessment*	3
ECH 104	Early Childhood Field Experience II*	3
	Electives**	2
PE 146	CPR Basic Support	1
		13
TOTAL CREDIT HOURS		**62**

* A minimum grade of C- (70) is required to complete graduation requirements.

** Library 102 recommended elective

Note: Math Competency Requirements – Students must pass the Math Placement Test or pass Math 099 in order to fulfill prerequisite requirements for ECH 222.

Liberal Arts and Sciences: Adolescence Education A.A.

This program is designed for students interested in transferring to a bachelor's degree program in Adolescence Education at a SUNY institution.

Degree Requirements

Please note that students in this program must complete one of the following concentrations to satisfy degree requirements: Biology, Chemistry, Earth Science, English, History/Social Studies, or Mathematics (see next page). Students must complete a minimum of 12 credit hours in one of the designated concentrations. In some cases, liberal arts electives may be needed to fulfill concentration requirements.

Transfer credit for Early Childhood or Education courses will only be granted after transcript review by the Education Coordinator.

General Education requirements must be met before the degree will be granted. For information on General Education requirements see pages 72-73.

A computer literacy requirement applies and may be satisfied either by completing designated courses or by passing a computer literacy test.

Transfer Information

Students planning to transfer to a SUNY four-year degree program in Adolescence Education should contact their advisor, the transfer counselor, or the Education coordinator. Please note: This program may not be appropriate for students interested in transferring to private colleges or universities; students should consult with their chosen institution to plan the most appropriate course sequence.

Additional Information

Note: Students may be required to have police and child abuse clearances and physicals before beginning field experience classes. Individuals with certain criminal histories will not be able to satisfy field experience requirements for the completion of the degree. In addition, students are required to submit to alcohol and/or drug testing upon request by either the College or any of the cooperating field placement sites. Students who test positive are subject to removal from the field placement and will therefore not be able to satisfy requirements for the completion of the degree. Refusal to submit to the test will result in the student being asked to leave the field placement site and may result in dismissal from the course and/or the program. Students must be able to satisfactorily and safely perform the duties associated with the care and education of children. Technical Standards for the degree are available from the Education Coordinator or from the College website at **www.cayuga-cc.edu/academics/wp-content/uploads/sites/9/2016/01/Technical-Standards-Education-Programs.pdf**

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
	Concentration Elective	3
	Foreign Language*	3
PSY 101	Introductory Psychology	3
	Mathematics General Education	3
	Physical Education	1
		16
Second Semester		
ENGL 102	Freshman English II	3
	Foreign Language*	3
PSY 216	Adolescent Psychology	3
HIST 101	Western Civilization I	
or		
HIST 102	Western Civilization II	3
	Concentration Elective	3
		15
Third Semester		
ENGL 201	World Literature I	
or		
ENGL 202	World Literature II	3
	Mathematics or Science Elective**	3
	Health	1
	Physical Education	1
	Liberal Arts Elective	3
	The Arts Elective†	3
	Computer Literacy course or Electives	3
		17
Fourth Semester		
HIST 103	Pre-History and Early American History	
or		
HIST 104	19th Century American History	
or		
HIST 105	America in the 20th and 21st Centuries	3
SOC 110	Race and Ethnicity	3
	Liberal Arts Elective	3
	Science General Education**	3
EDU 202	Foundations of American Education	3
		15
TOTAL CREDIT HOURS		**63**

* Although Spanish 111 and 112 will fulfill degree requirements and SUNY General Education requirements at Cayuga, they may not satisfy requirements at the transfer institution. Students are advised to contact their prospective transfer institution before enrolling in these courses. American Sign Language may be used to satisfy the foreign language General Education requirement for students in this program.

** A combination of two science disciplines is recommended, (Biology/Geology or Chemistry/Physics). At least one must be a lab science. Students are advised to contact their prospective transfer institution before enrolling in these courses.

† See General Education requirements for The Arts, page 73.

Liberal Arts and Sciences: Adolescence Education A.A. Concentrations in the Discipline

Students in the Liberal Arts and Sciences: Adolescence Education A.A. program (see previous page) must select one of the following concentrations to complete degree requirements: Biology, Chemistry, Earth Science, English, History/Social Studies, or Mathematics. Curriculum requirements for each are listed below.

Note:

- You must complete a minimum of 12 credit hours in one of the designated concentrations.
- When planning your schedule, carefully note pre-requisites, course sequencing, and availability of courses.
- To plan the most appropriate course selection, you should consult with your intended four-year transfer institution.

Biology Concentration

The following courses must be completed:
BIOL 103 and 104
CHEM 103 and 104

Chemistry Concentration

The following courses must be completed:
CHEM 103, 104, 207, and 208
MATH 108 and 201

Earth Science Concentration

The following courses must be completed:
CHEM 103 and 104
GEOL 110 and 111

English Concentration

The following courses must be completed:
ENGL 101, 102, and 209
Choose one: ENGL 203, 204, 205, 206, 235, 245, or 247

History/Social Studies Concentration

The following courses must be completed:
HIST 103 & 105
Choose two: ECON 201, ECON 202, PSCI 102

Mathematics Concentration

The following courses must be completed:
MATH 108, 201, 202, and 203

Other Cayuga Programs

Cayuga offers several additional programs for individuals interested in working with children in a variety of settings. Options available include Teacher Assistant coursework, CDA (Child Development Associate) coursework, Early Childhood Certificate, Early Childhood A.A.S., A.A. in Liberal Arts and Sciences / Childhood Education, and A.A. in Liberal Arts and Sciences / Humanities and Social Sciences with concentrations in Early Childhood or Education. For details, consult the College catalog or contact the Education program coordinator.

Liberal Arts and Sciences: Childhood Education A.A.

This program is designed for students interested in transferring to a bachelor's degree program in Childhood Education at a SUNY institution.

Degree Requirements

Please note that students in this program must complete one of the following concentrations to satisfy degree requirements: English, General Science, or History/Social Studies (for required courses, see next page). Students must complete a minimum of 12 credit hours in one of these concentrations. In some cases, liberal arts electives must be used to fulfill concentration requirements.

Transfer credit for Early Childhood or Education courses will only be granted after transcript review by the Education Coordinator.

General Education requirements must be met before the degree will be granted. For specific information on General Education requirements see pages 72-73.

A computer literacy requirement applies and may be satisfied either by completing designated courses or by passing a computer literacy test.

Transfer Information

Students planning to transfer to a SUNY four-year degree program in Childhood Education should consult with their advisor, the transfer counselor, or the Education coordinator. Please note: This program may not be appropriate for students interested in transferring to private colleges or universities; students should consult with their chosen institution to plan the most appropriate course sequence.

Additional Information

Students must be able to satisfactorily perform duties associated with the care and education of children from birth to eight years of age. Technical Standards for the degree are available from the Education Coordinator or from the College website at **www.cayuga-cc.edu/academics/wp-content/uploads/sites/9/2016/01/Technical-Standards-Education-Programs.pdf**

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
HIST 101	Western Civilization I	
or		
HIST 102	Western Civilization II	
	Foreign Language*	3
PSY 101	Introductory Psychology	3
MATH 115	Elementary Mathematics I	3
		15
Second Semester		
ENGL 102	Freshman English II	3
	Foreign Language*	3
PSY 215	Child Psychology	3
MATH 116	Elementary Mathematics II	3
SOC 110	Race and Ethnicity	3
		15
Third Semester		
ENGL 201	World Literature I	
or		
ENGL 202	World Literature II	3
HIST 103	Pre-History and Early American History	
or		
HIST 104	19th Century American History	
or		
HIST 105	America in the 20th and 21st Centuries	3
	Science Elective *(General Education)***	3
	Liberal Arts or Concentration Elective	3
	The Arts Elective†	3
	Elective *(recommended: EDU 120 Technology for Teachers)*	2
		17
Fourth Semester		
ENGL 209	Children's Literature	3
	Liberal Arts or Concentration Elective	3
	Science or Concentration Elective**	3
PE 199	Physical Education for Children	2
EDU 202	Foundations of American Education	3
	Health	1
		15
TOTAL CREDIT HOURS		**62**

* Although Spanish 111 and 112 will fulfill degree requirements and SUNY General Education requirements at Cayuga Community College, they may not satisfy requirements at the transfer institution. Students are advised to contact their prospective transfer institution before enrolling in these courses; American Sign Language may be used to satisfy the foreign language General Education requirement for students in this program.

**A combination of two science disciplines is recommended, (Biology/Geology or Chemistry/Physics). Students are advised to contact their prospective transfer institution before enrolling in these courses.

† See General Education requirements for The Arts, page 73.

Liberal Arts and Sciences: Childhood Education A.A. Concentrations in the Discipline

Students in the Liberal Arts and Sciences: Childhood Education A.A. program (see previous page) must select one of the following concentrations to complete degree requirements: English, General Science, or History/Social Studies. Curriculum requirements for each are listed below.

Note:

- You must complete a minimum of 12 credit hours in one of the designated concentrations.
- When planning your schedule, pay close attention to prerequisites, course sequencing, and availability of courses.
- To plan the most appropriate course selection, you should consult with your intended transfer institution.

English Concentration

The following courses must be completed:

ENGL 101, 102, and 209
Choose one: ENGL 203, 204, 205, 206, 235, 245, or 247

General Science Concentration

Four of the following courses must be completed:

BIOL 103, 104, 105, 216
CHEM 103, 104
GEOL 110, 111
PHYS 103, 104

History/Social Studies Concentration

The following courses must be completed:

HIST 103 & 105
Choose two: HIST 101, 102, 155, 199

Other Cayuga Programs

Cayuga offers several additional programs for individuals interested in working with children in a variety of settings. Options available include Teacher Assistant coursework, CDA (Child Development Associate) coursework, Early Childhood Certificate, Early Childhood A.A.S., A.A. in Liberal Arts and Sciences / Childhood Education, and A.A. in Liberal Arts and Sciences / Humanities and Social Sciences with concentrations.

Liberal Arts and Sciences: Humanities and Social Sciences A.A.

This program is designed for students who plan to transfer and continue their studies in the humanities or social sciences, leading to a bachelor's degree.

Degree Requirements

General Education requirements must be met before the A.A. degree will be granted. For details on General Education requirements, see pages 72-73

Credit Requirements

A minimum of 62 credits but fewer than 120 credits with an average grade of C (2.000).

Curriculum Requirements

The course of study leading to this degree should be an organized curriculum comprised primarily of courses in the Liberal Arts and Sciences.

English and Humanities

18 credit hours

Courses	*Credit Hours*
ENGL 101-102	6
ENGL 201-206	3
Humanities	3
Electives	6

Humanities: Art, Foreign Languages, Music, Philosophy, Theatre Arts. ENGL 101 or higher will fulfill English and Humanities requirement.

Behavioral and Social Sciences

12 credit hours

At least 3 credit hours in
ANTH 101, ECON 201, ECON 202, PSY 101,
or
SOC 101

3 credit hours in
HIST 101-105

6 credit hours in
BEHAVIORAL AND SOCIAL SCIENCES:
Anthropology, Economics, Geography, Geographic Information Systems(GIS 111, GIS 205 only), History, Political Science, Psychology, Sociology.

Natural Sciences and Mathematics

9-12 credit hours

To fulfill the mathematics/science requirement for the A.A. Liberal Arts degree, select one of the following:

OPTION 1: 3-4 credit hours in math and *two* 4-credit hour science courses.
OPTION 2: 3-4 credit hours in math and *three* 3-credit hour science courses
OPTION 3: 6-8 credit hours in math and *one* 3-4 credit hour science course.
NATURAL SCIENCES:
biology, chemistry,geology, GIS 101, and physics.

For Options 1 and 2
MATH 102 or higher (except 115 or 116) will fulfill math requirement.

For Option 3
MATH 115 and 116 will fulfill math, General Education, and computer literacy requirements.

MATH 101 or higher (except 115 or 116) will fulfill math requirement.

(MATH 101, BIO 213, and CHEM 108 will not satisfy General Education requirements.)

Liberal Arts Electives

9 credit hours

See page 75 for definition of Liberal Arts electives.

Other World Civilizations / The Arts

3 credits from either
Other World Civilizations
or
The Arts
See page 73 for a listing of acceptable course choices.
If any listed course has been taken to meet another requirement, then the "Other World Civilizations or The Arts" requirement has been met.

Electives

8-11 credit hours

Adequate to meet a total of 62 credit hours
No more than 6 credit hours total in MUSI 100 and Physical Education courses carrying fewer than 3 credits may be applied toward the A.A. degree.

Students planning to seek a Bachelor of Arts degree should complete a foreign language through the intermediate level.

Health and Physical Education

1 credit hour in Health
2 credit hours in Physical Education

Liberal Arts and Sciences: Humanities and Social Sciences A.A. Concentrations in the Discipline

Concentrations offer focused electives in Criminal Justice, Early Childhood, Education, History, Psychology, for enhanced career and transfer opportunities. Concentrations are not majors and are not required to earn the Liberal Arts / Humanities and Social Sciences degree. Consult with an academic advisor before scheduling courses for a concentration.

Criminal Justice

This program is designed for students who plan to transfer to a bachelor's degree program and continue studies in Criminal Justice, Law, Pre-Law, Criminology or Forensic Psychology. By utilizing free electives, students can build a concentration in criminal justice while fulfilling General Education and liberal arts requirements.

If you plan to transfer to a bachelor's degree program, you should consult with your prospective school to determine the appropriate course selection for optimum transfer of credits.

The following courses can be selected for the Criminal Justice concentration and will meet various elective requirements for the Liberal Arts/Humanities and Social Sciences degree:

CJ 111	Introduction to Justice Systems*
CJ 117	Juvenile Delinquency*
CJ 220	Criminology *(prerequisite : CJ 111)*
CHEM 108	Forensic Chemistry†
or	
PSY 206	Abnormal Psychology**

*Meets free elective requirements (8–11 credit hours allowed).

**Behavioral/Social Sciences or Liberal Arts elective

†Can be used for one of the required Science electives or as a Liberal Arts elective.

Early Childhood

This program is designed for students seeking the flexibility of a Liberal Arts A.A. degree with specific coursework in Early Childhood Education.

To complete the concentration, ECH 101, 102, 105, 106, and 110 are required and will fulfill the 8–11 general electives needed for the Liberal Arts degree. MATH 115 and 116 are recommended; MATH 116 may be used to fulfill the computer literacy requirement.

In order to graduate with an A.A degree in Liberal Arts with an Early Childhood concentration, the student must demonstrate competency (a grade of C- or higher) in four Key Assessments. The Key Assessments are completed in the core early childhood courses (ECH 101, 102, 105, 106 and 110). This requirement also applies to students who have transferred credits to Cayuga from other colleges.

Students must have a cumulative GPA of 2.3 or higher to enroll in field experience coursework (ECH 105).

Transfer for Early Childhood or Education course credit will only be granted after transcript review by the Education Coordinator.

Note: A minimum grade of C- (70) is required in ECH 101, 102, 105, 106, and 110 to fulfill degree requirements. For students who take BEH 101 as an elective, a minimum C- (70) grade is required.

Students must be physically able to satisfactorily and safely perform duties associated with the care and education of children from birth to eight years of age.

Cayuga has an articulation agreement for transfer to Keuka College. In addition, transfer arrangements have been made with SUNY Cortland, SUNY Oswego, SUNY Fredonia, and the College of St. Rose.

Note: Students may be required to have police and child abuse clearances and physicals before beginning field experience classes. Individuals with certain criminal histories will not be able to satisfy field experience requirements for the completion of the degree. In addition, students are required to submit to alcohol and/or drug testing upon request by either the College or any of the cooperating field placement sites. Students who test positive are subject to removal from the field placement and will therefore not be able to satisfy requirements for the completion of the degree. Refusal to submit to the test will result in the student being asked to leave the field placement site and may result in dismissal from the course and/or the program. Students must be able to satisfactorily and safely perform the duties associated with the care and education of children. Technical Standards for the degree are available from the Education Coordinator or from the College website at **www.cayuga-cc.edu/academics/wp-content/uploads/sites/9/2016/01/Technical-Standards-Education-Programs.pdf**

Education

This program is designed for students who plan to transfer to a bachelor's degree program at a non-SUNY school to continue studies in a childhood or adolescence education program. (For information on Cayuga's Early Childhood concentration, see the preceding section.)

To complete the Education concentration, the following course is required:
EDU 202. In addition, at least 6 credit hours from the following courses are required: EDU 120, PSY 215 or 216, PSY 217 BEH 101, SOC 110

Students must be able to satisfactorily and safely perform the duties associated with the care and education of children. Technical Standards for the degree may be obtained from the Education Coordinator or from the Office of Accessibility Resources. For further information, please contact the Early Childhood coordinator.

Transfer for Early Childhood or Education course credit will only be granted after transcript review by the Education Coordinator. Because of varying requirements among bachelor's degree programs, students should contact Cayuga's transfer counselor or Education coordinator to maximize transferability of coursework to the desired institution.
Note: Students may be required to have police and child abuse clearances and physicals before beginning field experience classes. Individuals with certain criminal histories will not be able to satisfy field experience requirements for the completion of the degree. In addition, students are required to submit to alcohol and/or drug testing upon request by either the College or any of the cooperating field placement sites. Students who test positive are subject to removal from the field placement and will therefore not be able to satisfy requirements for the completion of the degree. Refusal to submit to the test will result in the student being asked to leave the field placement site and may result in dismissal from the course and/or the program.

Technical Standards for the degree are available from the Education Coordinator or from the College website at **www.cayuga-cc.edu/academics/wp-content/uploads/sites/9/2016/01/Technical-Standards-Education-Programs.pdf**

History

This concentration is designed for students interested in furthering their education in the fields of history, museum studies, or social science research. A concentration in history will be very helpful for those working in or members of historical associations. Our courses are designed to transfer to colleges offering bachelor's level studies. The concentration (depending on courses chosen) can be oriented to local or regional historical subjects.

A concentration in history requires 12 credit hours of history courses. Students must complete one general education history course and three additional history courses to qualify for the concentratio, two of which must be 200 level history courses.

Organize your concentration in the following way:

Courses	*Credit Hours*
Choose one	
General Education: HIST 101-112	3
Choose two:	
200 level histories	6
Choose one:	
course from any of the history offerings	3

Psychology

This concentration is designed for students interested in studying psychology, human services, social work, or education upon transfer to a bachelor's degree program. As a concentration within the Liberal Arts / Humanities and Social Sciences degree, this concentration enables students to choose from a variety of psychology courses offered at Cayuga by selecting courses in the behavioral sciences, liberal arts, or free elective categories.

All students within this concentration must take the prerequisite Psychology 101 (Introductory Psychology), which fulfills a General Education requirement.

Students must take 3 additional psychology courses from the following list.

Note: For all courses except PSY 217, PSY 101 is a prerequisite. Some courses listed may not be offered each semester.

PSY 203	Social Psychology
PSY 205	Psychology of Personality
PSY 206	Abnormal Psychology
PSY 210	Psychology of Human Relationships
PSY 212	Developmental Psychology – Life Span
PSY 214	Selected Topics in Psychology
PSY 215	Child Psychology
PSY 216	Adolescent Psychology
PSY 217	Introduction to Children with Exceptionalities
PSY 223	Introduction to Biological Psychology

Due to the nature of the liberal arts components of the degree program, students should expect ease of transfer to similar programs elsewhere. Cayuga's transfer counselor can assist in planning for transfer to four-year colleges and universities.

Certificates

Criminal Justice

Minimum of three semesters required for completion.

Courses		*Credit Hours*
CJ 111	Introduction to Justice Systems	3
CJ 112	Organization and Administration of Justice Systems	3
CJ 115	Criminal Law	3
CJ 117	Juvenile Delinquency	3
CJ 123	Laws of Evidence	3
PSY 101	Introductory Psychology	3
SOC 101	Introductory Sociology	3
	Behavioral/Social Sciences Elective	3
		24

Correction Administration

Minimum of three semesters required for completion.

Courses		*Credit Hours*
CJ 220	Criminology	3
CJ 115	Criminal Law	3
CJ 121	Institutional Corrections	3
CJ 211	Case Studies in Criminal Behavior	3
CJ 213	Community Corrections	3
PSY 101	Introductory Psychology	3
SOC 101	Introductory Sociology	3
	Behavioral/Social Sciences Elective	3
		24

Early Childhood

This program can be completed in two semesters if the student enrolls full-time. Students who earn the Early Childhood Certificate may seek employment in child care programs, as teacher assistants, as pre-school teachers, or they may pursue study towards an A.A.S. degree in Early Childhood.

Courses		*Credit Hours*
First Semester		
ECH 101*	Introduction to Early Childhood Education	3
ECH 106*	Field Experience - Early Childhood	1
PSY 217	Introduction to Children with Exceptionalities	3
ECH 110*	Methods and Materials in Early Child Education	3
ENGL 101	Freshman English I	3
EDU 120	Technology for Teachers	1
PE 145	First Aid	1
PE 146	CPR	1
		16
Second Semester		
ECH 102*	Curriculum and Assessment	3
ECH 104*	Early Childhood Field Experience II	3
ECH 111*	Infants and Toddlers	3
ENGL 209	Children's Literature	3
BEH 101*	Language/Literacy Development	3
		15

*Minimum grade of C- (70) is required in BEH 101 and ECH 101, 102, 104, 106, 110, and 111 to complete certificate requirements. See Graduation Requirements below.

Students must be physically able to satisfactorily and safely perform duties associated with the care and education of children from birth to eight years of age.

Students must have a cumulative GPA of 2.3 or higher to enroll in field experience coursework (ECH 104)

Transfer for Early Childhood or Education course credit will only be granted after transcript review by the Education Coordinator.

Students are required to have police and child abuse clearances and physical examinations prior to beginning their field experience class (ECH 104).

Note: Students with certain criminal histories will not be able to satisfy field experience requirements for the completion of the certificate. In addition, students are required to submit to alcohol and/or drug testing upon request by either the College or any of the cooperating field placement sites. Students who test positive are subject to removal from the field placement and will therefore not be able to satisfy requirements for the completion of the certificate. Refusal to submit to the test will result in the student being asked to leave the field placement site and may result in dismissal from the course and/or the program. Students must be able to satisfactorily and safely perform the duties associated with the care and education of children. Technical Standards for the degree may be obtained from the Education Coordinator or from the Office of Accessibility Resources.

Graduation Requirements: In order to graduate with the Certificate in Early Childhood, students must demonstrate competency (a grade of 70 or higher) in five Key Assessments. The Key Assessments are completed in each of the core Early Childhood courses (ECH 101, 102, 104, 110, and 111). This requirement also applies to students who have transferred credits to Cayuga from another college.

Technical Standards for the degree are available from the Education Coordinator or from the College website or **www.cayuga-cc.edu/pdf/academics/Technical-Standards-Education-Programs.pdf.**

School of Sciences, Technology, Engineering and Math (STEM)

Professor Christie Waters, Division Chair
315-294-8421 • waters@cayuga-cc.edu

Cayuga's STEM school provides an experiential approach to learning that promotes creative problem solving and is based on learning through inquiry. With small classes and hands-on labs, students and faculty explore how things work, and study innovative ways to make them work better.

There are opportunities to explore our natural world and the physical sciences, to learn about the evolving technology that drives business and industry, and to appreciate the mathematics that describes it all.

Cayuga can be your start to a rewarding career where you can use critical thinking STEM skills in a wide range of fields.

Degrees

COMPUTER HARDWARE/SOFTWARE DESIGN AAS

COMPUTER INFORMATION SYSTEMS AAS *
Internet Technology Option

COMPUTER SCIENCE AS*

INFORMATION TECHNOLOGY AS*
Creative Game Design
Web Design
Network Administration
Cybersecurity

ELECTRICAL TECHNOLOGY – ELECTRONICS AAS

GEOGRAPHIC INFORMATION SYSTEMS AS

LIBERAL ARTS & SCIENCES/MATHEMATICS AS

LIBERAL ARTS & SCIENCES/MATH & SCIENCE AS*†
Biology†
Chemistry
Geology
GIS (Geographic Information Systems)

MECHANICAL TECHNOLOGY AAS
PLASTICS TECHNOLOGY OPTION

MECHANICAL TECHNOLOGY AAS
Computer Aided Design (CAD)
Facilities Design
Mechatronics
Precision Machining

Certificate Programs

Advanced Manufacturing
Computer Hardware/Software Design
Computer Information Systems*
Electronics
Plastics Manufacturing

* Degree can be completed entirely at Auburn or Fulton campus (not all concentrations are available in Fulton).

† Degree can be completed entirely online (not all concentrations are available online or in Fulton).

Computer Hardware/Software Design A.A.S.

This program provides foundation in the design of both computer hardware and software. It combines the electronics of hardware design with the problem solving and logic skills of software design. It offers exciting and rewarding opportunities in the rapidly developing computer hardware/software industry.

Degree Requirements

This curriculum provides the knowledge and skill in both hardware and software needed to enter a professional career in computer design.

The curriculum listed on this page represents the minimum coursework required for the A.A.S. degree in Computer Hardware/Software Design. Any exception must have the written consent of the chair of the Division of Natural and Health Sciences, Mathematics, and Technology.

A background in algebra and trigonometry is recommended.

Career Possibilities

Entry-level positions for technicians in various fields of computers, and in programming, computer operations, communications, computer science, and automation.

Transfer Information

Students planning to transfer should contact their advisor and/or a transfer counselor in the Centers for Student Engagement and Academic Advisement for more information. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
CS 120	Foundations of Computer Science	3
ELEC 101	Electrical Circuits	4
ELEC 105	Introduction to Digital Computers	4
MATH 104	College Algebra (or higher)*	3
		17
Second Semester		
ENGL 102	Freshman English II	
or		
ENGL 270	Technical Writing	3
ELEC 102	Basic Electronics	4
ELEC 107	Fundamentals of Microcomputers	4
CS 200	Programming in Visual Basic	3
MATH 106	Pre-Calculus	3
		17
Third Semester		
BUS 225	Microcomputer Application Software	3
CS 080	Microcomputer Maintenance	1
CS 222	Programming in C/C++	3
	Behavioral/Social Sciences	3
	Liberal Arts Elective	3
	Health or Physical Education	1
		14
Fourth Semester		
BUS 226	Advanced Microcomputer	3
CS 225	Introduction to Networks	3
CS 238	Java	3
	Behavioral/Social Sciences	3
	Technical Elective**	3
		15
TOTAL CREDIT HOURS		**63**

*****MATH 112, 115, or 116 will not fulfill Math requirement.

*****Must be one of the following:***

CS 219	Database Management Systems
CS 228	Introduction to Unix/Linux
CS 235	Web Page Design
CS 236	Advanced Visual Basic
CS 237	Internet Security
ELEC 209	Programmable Logic Controllers

Computer Information Systems A.A.S.

This program is intended to provide a foundation in the concepts and principles of computer information systems. It includes methods of analyzing and designing business information systems for computer use.

Degree Requirements

The curriculum listed on this page represents the minimum coursework required for the A.A.S. degree in Computer Information Systems. Any exception must have the written consent of the chair of the Division of Natural and Health Sciences, Mathematics, and Technology.

Career Possibilities

Entry-level positions in programming, computer operations, systems analysis, and database administration.

Transfer Information

Students should contact their advisor and/or the transfer counselor in the Centers for Student Engagement and Academic Advisement for information on transfer planning. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
BUS 101	Principles of Accounting	4
BUS 225	Microcomputer Application Software	3
CS 120	Foundations of Computer Science	3
MATH 104	College Algebra (or higher)*	3
		16
Second Semester		
CS 200	Programming in Visual Basic	3
CS 225	Introduction to Networks	3
BUS 226	Advanced Micro. Application Software	3
	Behavioral/Social Science Elective	3
ENGL 102	Freshman English II	
or		
ENGL 270	Technical Writing	3
	Health or Physical Education	1
		16
Third Semester		
ENGL 221	Effective Speech: Public Address	3
BUS 103	Principles of Business	3
CS 080	Microcomputer Maintenance	1
CS 215	Systems Analysis and Design	3
CS 222	Programming in C/C++	3
	Math/Science	3
		16
Fourth Semester		
CS 219	Database Management Systems	3
CS 237	Internet Security	3
CS 238	Java	3
BUS 260	Introduction to Project Management	3
	Liberal Arts Elective	3
	Health or Physical Education	1
		16
TOTAL CREDIT HOURS		**64**

*****MATH 112, 115, or 116 will not fulfill Math requirement.

Computer Information Systems A.A.S. Internet Technology Option

This option offers a variation of the Computer Information Systems degree program, enabling students to specialize in designing applications specifically for the internet. The emphasis is on applied learning through laboratory practice, using the latest hardware and software.

Degree Requirements

The Internet Technology option provides training for developing programming applications and information systems for the Internet. It features in-depth training in the use and design of software for Internet applications. The emphasis is on applied learning through laboratory practice using the latest hardware and software.

Graduates of this degree program option will have acquired skills in Internet programming, problem-solving, communications, web-based application software, computer systems, and networks.

The curriculum listed on this page represents the minimum coursework required for the A.A.S. degree in Computer Information Systems: Internet Technology Option. Any exception must have the written consent of the chair of the Division of Natural and Health Sciences, Mathematics, and Technology.

Career Possibilities

Entry level positions as web designer/developer, webmaster, software engineer, network administrator, and network support specialist.

Transfer Information

Students planning to transfer should contact their advisor and/or a transfer counselor in the Centers for Student Engagement and Academic Advisement for more information. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
CS 080	Microcomputer Maintenance	1
CS 120	Foundations of Computer Science	3
BUS 225	Microcomputer Application Software	3
BUS 103	Principles of Business	3
MATH 104	College Algebra (or higher)*	3
		16
Second Semester		
ENGL 102	Freshman English II	
or		
ENGL 270	Technical Writing	3
CS 200	Programming in Visual Basic	3
BUS 226	Advanced Micro. Application Software	
or		
BUS260	Project Management	3
	Behavioral/Social Science Elective	3
	Math/Science	3
	Health or Physical Education	1
		16
Third Semester		
CS 082	Help Desk	1
CS 215	Systems Analysis and Design	3
ENGL 221	Effective Speech: Public Address	3
CS 228	Introduction to Unix/Linux	3
	Behavioral/Social Science	3
	Health or Physical Education	1
		14
Fourth Semester		
CS 219	Database Management Systems	3
CS 225	Introduction to Networks	3
CS 235	Web Page Design	3
CS 237	Internet Security	3
CS 238	Java	3
	Liberal Arts Elective	3
		18
TOTAL CREDIT HOURS		**64**

* Depending on the student's math placement. MATH 112, 115, or 116 will not fulfill Math requirement.

Computer Science A.S.

A mathematics and computer programming based program designed to prepare students for transfer to a bachelor of science degree program.

Degree Requirements

General Education requirements must be met before the A.S. degree will be granted. For details on General Education requirements, see pages 72-73.

The curriculum listed on this page is required for an A.S. degree in Computer Science. Students may be required to complete certain degree requirements in the evening. Any exception must have the written consent of the chair of the Division of Natural and Health Sciences, Mathematics, and Technology.

Academic Preparation

Three years of high school mathematics required; four years of mathematics recommended.

Career Possibilities

Transfer to a four-year school for training as a software programmer, applications programmer, or systems analyst.

Transfer Information

Students should contact their advisor and/or the transfer counselor in the Centers for Student Engagement and Academic Advisement for information on transfer planning. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
CS 120	Foundations of Computer Science	3
BUS 225	Microcomputer Application Software	3
	Behavioral/Social Sciences*	3
	Math**	3
	Health or Physical Education	1
		16
Second Semester		
ENGL 102	Freshman English II	3
CS 238	Java	3
	Behavioral/Social Sciences*	3
	Math**	4
	Humanities***	3
		16
Third Semester		
CS 239	Java II	3
CS 222	Programming in C/C++	3
CS 215	Systems Analysis and Design	3
MATH 212	Discrete Math	3
	Science†	4
		16
Fourth Semester		
ENGL 201-206		
or		
ENGL 221	Effective Speech: Public Address	
or		
ENGL 222	Effective Speech: Group Discussion	3
MATH 203	Linear Algebra	
or		
MATH 210	Data Structures	3
	Liberal Arts	3
HIST 101	Western Civilization I	
or		
HIST 102	Western Civilization II	
or		
HIST 103	Pre-History and Early American History	
or		
HIST 104	19th Century American History	
or		
HIST 105	America in the 20th and 21st Centuries	3
	Science†	4
		16
TOTAL CREDIT HOURS		**64**

* Choose one: PSY 101, SOC 101, ECON 201 or 202, ANTH 101, GIS 111 or GIS 205.

** Minimum mathematics requirements: MATH 108 and 201.

*** ART 139, 103, 104, 106, 112, 113, 131, 160, 215, 221, 231, 250, 251, 255, 260; MUSI 104, 112, 154, 158; THA 101, 113, 152; PHIL 203.

† Must be a sequence of one of the following:
BIOL 103-104 or BIOL 105-106
CHEM 103-104
PHYS 103-104 or PHYS 200-201
GEOL 110-111

Information Technology A.S.

This program allows students to build a foundation for transfer into four-year information technology or other technology-related programs. Information Technology focuses on designing and managing technologies for user productivity. IT careers are in high demand and include specialties in game design, web design and administration, network administration, and information security.

Degree Requirements:

General Education requirements must be met before the A.S. degree will be granted. For details on General Education requirements, see pages 72-73. The curriculum listed on this page is required for an A.S. degree in Information Technology. Students must choose a particular concentration area and use the courses listed in concentration areas (see next page) to fulfill degree requirements. Any exception must have the written consent of the chair of the Division of Natural and Health Sciences, Mathematics, and Technology.

The minimum math prerequisite for earning credit toward this program is MATH 104 College Algebra and Trigonometry which could be used for elective credit; however, to get the most out of the program, the student should place into MATH 106 Pre-Calculus.

Career Possibilities

Transfer to a four-year program provides training for careers such as games designer, network and data communications analyst, network administrator, web developer, web administrator, IT consultant, computer security specialist, security engineer, systems administrator, and database administrator.

Transfer Information

Students should contact their advisor and/or the transfer counselor in the Centers for Student Engagement and Academic Advisement for information on transfer planning. Early consultation to plan the most appropriate course sequence will optimize transferability.

Concentrations

Creative Game Design, Web Design, Network Administration and Cybersecurity.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
CS 080	Microcomputer Maintenance	1
CS 120	Foundations of Computer Science	3
BUS 225	Application Software	3
MATH 106	Pre-Calculus (or higher)	3
	Concentration Elective*	3
		16
Second Semester		
ENGL 102	Freshman English II	3
CS 082	Help Desk	1
CS 225	Networking	3
MATH 212	Discrete Math	
or		
MATH 214	Statistics	3
	Concentration Elective*	3
	Health or Physical Education	1
		14
Third Semester		
CS 222	Programming in C/C++	
or		
CS 200	Programming in Visual Basic	3
HIST 101	Western Civilization I	
or		
HIST 102	Western Civilization II	
or		
HIST 103	Pre-History and Early American History	
or		
HIST 104	19th Century American History	
or		
HIST 105	America in the 20th and 21st Centuries	3
	Behavioral/Social Science	3
	Concentration Elective *	3
	Lab Science***	4
	Health or Physical Education	1
		17
Fourth Semester		
CS 219	Database Management Systems	3
CS 238	Java	3
	Arts or Other civilizations Elective**	3
	Concentration Elective*	3
	Liberal Arts Elective	3
		15
TOTAL CREDIT HOURS		**62**

*The courses listed in concentrations below must be used to fulfill degree requirements.

** Depending on the concentration, students should choose an Art or Other Civilizations elective that optimizes general education credits.

***Choose from the following courses: BIO 103-106, CHEM 103-104, GEOL 110-111, PHYS 103-104.

Information Technology Concentrations in the Discipline

Creative Game Design

This concentration will develop skills related to video game design. It provides a mix of computer art, programming, scriptwriting, and telecommunications media courses and gives students a broad perspective of the elements in today's gaming industry. The courses emphasize learning through hands-on labs and projects.

Choose any 4 courses for the concentration (12 credits):

ART 112	Two-Dimensional Design
ART 215	Computer Graphics/Illustration
CS 237	Internet Security
ENGL 239	Video Game Narrative
TELC 176	Video Game Design
TELC 178	Digital Animation

Web Design

This concentration will build a foundation for programming and designing web sites and working with multimedia rich elements for web design.

Choose 4 courses for the concentration (12 credits); at least one of the courses must be ART 215 or ART 252:

ART 215	Computer Graphics/Illustrator
ART 252	Photoshop
CS 215	Systems Analysis
CS 235	Web Page Design and Development
CS 237	Internet Security
CS 228	Introduction to Unix/Linux
TELC 178	Digital Animation

Network Administration

This concentration will build a foundation for network design, installation, maintenance, and security and prepare students for further study and certification in network administration. Network administration is one of the fastest growing career fields, especially in network security.

Required course for Liberal Arts requirements (3 credits): ENGL 270 Technical Writing

Choose any 3 additional courses for the concentration (9 credits):

CS 180	Data Communications
CS 215	Systems Analysis
CS 237	Internet Security
CS 228	Introduction to Unix/Linux
BUS 101	Principles of Accounting I
BUS 200	Principles of Management

Cybersecurity

This concentration will build a foundation for one of the fastest growing careers today based on the growing need for investigating computer crime and securing databases. The courses serve as a foundation to transfer into an information security or computer forensics degree program at a four-year institution.

Required course for Liberal Arts requirements (3 credits): ENGL 270 Technical Writing

Choose any 3 courses for the concentration (9 credits):

CJ 111	Introduction to Justice Systems
CJ 115	Criminal Law
CJ 119	Criminal Investigations
CJ 123	Laws of Evidence
CS 237	Internet Security

Electrical Technology: Electronics A.A.S.

This program prepares students for employment and advancement in the field of electronics.

Degree Requirements

Cayuga's "hands-on" learning environment focuses on experimentation with the use of various pieces of test equipment and helps students develop troubleshooting skills for sophisticated electronic systems.

The curriculum provides the graduate with fundamental knowledge in DC and AC circuitry, digital circuits, microprocessor systems, programmable logic controllers, and high-frequency systems. Cayuga's experimental and simulation laboratory environments help students gain necessary application experience in the proper use of multimeters, oscilloscopes, logic pulsers and probes, logic analyzers, spectrum analyzers, and network analyzers.

Academic Preparation

A background in algebra and trigonometry is recommended.

Career Possibilities

Positions in the fields of computers, robotics, medical instrumentation, audio/radio frequency communication, and manufacturing include:

- Electronics Technician
- Service Technician
- Systems Test Technician
- Research and Development Technician
- Quality Control Technician
- Software Technician
- Biomedical Technician
- Documentation Technician

Transfer Information

Students should contact their advisor and/or the transfer counselor in the Centers for Student Engagement and Academic Advisement for information on transfer planning. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
ELEC 101	Electrical Circuits	4
ELEC 105	Introduction to Digital Computers	4
	Math Elective*	3
	Health or Physical Education	1
		15
Second Semester		
ENGL 102 or ENGL 270	Freshman English II or Technical Writing	3
ELEC 102	Basic Electronics	4
ELEC 107	Fundamentals of Microcomputers	4
MATH 114 or MATH 104	Applied Mathematics or College Algebra and Trigonometry (or higher)	3
CS 200 or CS 222	Programming in Visual Basic or Programming in C/C++	3
		17
Third Semester		
ELEC 201	Intermediate Electronics	4
ELEC 208	Radio Frequency Communications	4
ENGR 207	Quality Assurance	3
PHYS 103	General Physics I	4
	Technical Elective**	3
		18
Fourth Semester		
ELEC 204	Industrial Electronics	4
ELEC 209	Programmable Logic Controllers	3
PHYS 104	General Physics II	4
	Behavioral/Social Sciences	3
		14
TOTAL CREDIT HOURS		**64**

* Math 112, 115, or 116 will not fulfill Math requirement.

** The following will fulfill this requirement:
BUS 225 or BUS 226.
CS 200 or higher
Electronics
Engineering
Geographic Information Systems
Math (except Math 112, 115, or 116)
Mechanical Manufacturing Technology
Physics

Geographic Information Systems (GIS) A.S.

The associate in science degree program in GIS prepares students to continue their studies toward a bachelor's degree in Geographic Information Systems, or in related majors such as geographic information technology, resources management, geography, urban planning, and environmental science. Although it is a transfer program, students acquire skills that qualify them to pursue career opportunities after completion of the degree.

Degree Requirements

General Education requirements must be met before the A.S. degree will be granted. For details on General Education requirements, see pages 72-73.

The courses listed on this page represent the minimum requirements for the A.S. degree in Geographic Information Systems.

Career Possibilities

Upon successful completion of the A.S. program, graduates will have the skills required to pursue career opportunities at companies using GIS, GPS, and remote sensing technologies, and qualify to transfer directly to a four-year program at a participating university for a bachelor's degree.

Transfer Information

Cayuga has an articulation agreement in GIS with SUNY College at Cortland, as well as an articulation agreement with SUNY College of Environmental Science and Forestry in Syracuse for transfer into either Environmental Science or Natural Resources Management. For these and other transfer institutions, students should contact their advisor and/or a transfer counselor in the Centers for Student Engagement and Academic Advisement for more information. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
CS 120	Foundations of Computer Science	3
MATH 102	College Algebra and Trigonometry (or higher)*	3
ENGL 101	Freshman English I	3
BUS 225	Microcomputer Application Software	3
GIS 111	Introduction to Geographic Information Systems	3
PE	Physical Education	1
		16
Second Semester		
GIS 121	Remote Sensing and Aerial Photogrammetry	3
GIS 122	Spatial Modeling with Raster GIS	3
	CS Elective**CS 200 or higher	3
	Math/Science Elective	3
ENGL 102	Freshman English II	3
	Health	1
		16
Third Semester		
GEOL 110	Physical Geology	4
GIS 205	Intro to Vector GIS	3
BIOL 103	Biological Principles	1
or		
BIOL 105	Botany	4
HIST 101	Western Civilization	3
	Other Civilizations or the Arts Elective	3
		17
Fourth Semester		
GIS 220	Advanced GIS	3
GIS 222	GIS Programming	3
HIST 103	Pre-History and Early American History	
or		
HIST 104	19th Century American History	
or		
HIST 105	America in the 20th and 21st Centuries	3
ECON 201	Introduction to Economics I	
or		
ECON202	Introduction to Economics II	3
	Elective	3-4
		15
TOTAL CREDIT HOURS		**64**

* Math 112, 115, or 116 will not fulfill Math requirement.

** The following will fulfill this requirement:
CS 200 or higher

Liberal Arts and Sciences: Mathematics A.S.

This program is designed for students who plan to transfer and continue their studies in a bachelor's degree program in mathematics.

Degree Requirements

General Education requirements must be met before the A.S. degree will be granted. For details on General Education requirements, see pages 72-73.

The curriculum listed on this page is required for an A.S. degree in Mathematics. Any exception must be with written consent of the chair of the Division of Natural and Health Science, Mathematics, and Technology.

Academic Preparation

A minimum of four years of high school mathematics required.

Career Possibilities

A broad-based background in mathematics is excellent preparation for continued study in computer science, statistics, chemistry, physics, engineering, and other fields that use computer modeling.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
MATH 108	Calculus I	4
MATH 214	Statistics	3
	Science*	4
	Physical Education	1
		15
Second Semester		
ENGL 102	Freshman English II	3
MATH 201	Calculus II	4
MATH 203	Linear Algebra	3
	Science*	4
	Health	1
	Physical Education	1
		16
Third Semester		
ENGL 221	Effective Speech: Public Address	
or		
ENGL 222	Effective Speech: Group Discussion	3
MATH 202	Calculus III	4
CS 222	Programming in C/C++	3
HIST 101	Western Civilization I	
or		
HIST 102	Western Civilization II	
or		
HIST 103	Pre-History and Early American History	
or		
HIST 104	19th Century American History	
or		
HIST 105	America in the 20th and 21st Centuries	3
MATH 212	Discrete Mathematics	3
		16
Fourth Semester		
ENGL 201	World Literature I	
or		
ENGL 202	World Literature II	3
MATH 204	Differential Equations	4
	Behavioral/Social Sciences**	6
	Elective	3-4
		16-17
TOTAL CREDIT HOURS		**63-64**

* Must be a sequence of one of the following:
BIOL 103-104 or BIOL 105-106
CHEM 103-104
PHYS 103-104 or PHYS 200-201
GEOL 110-111

** At least 3 credit hours in one of the following: ANTH 101, ECON 201, ECON 202, PSY 101, or SOC 101

Liberal Arts and Sciences: Mathematics and Science A.S.

This program is designed for students who plan to transfer and continue their studies in fields such as medicine, dentistry, pharmacology, biology, chemistry, geology or environmental science.

Degree Requirements

General Education requirements must be met prior to granting of the A.S. degree.

Credit Requirements

A minimum of 62 credits, but fewer than 120, with an average grade of C (2.0).

Curriculum Requirements

The course of study leading to this degree should be an organized curriculum composed of courses in the Liberal Arts and Sciences.

English and Humanities

12 credit hours, to include:

- ENGL 101-102 (6 credits)
- ENGL 201-206, 221, 222, 270 (3 credits)
- Humanities: 3 credits from art, foreign languages, music, philosophy, or theatre arts

Behavioral and Social Sciences

9 credit hours, to include:

- At least 3 credit hours in ANTH 101, ECON 201, ECON 202, PSY 101 or SOC 101, GEOG 101, GIS 110, GIS 111, GIS 205 or PSCI 102
- 3 credit hours in HIST 101, HIST 102, HIST 103, HIST 104, or HIST 105
- Behavioral and Social Sciences: anthropology, economics, geography, history, political science, psychology, sociology, GIS 110, GIS 111, GIS 205, ASL

Natural Sciences and Mathematics

28 credit hours (minimum), to include"

- Biology, chemistry, electronics, geology, mathematics, physics
- 8 credit hours natural sciences sequence: BIOL 103-104, BIOL 105-106, BIOL 203-204, BIOL 103-106, CHEM 103-104, CHEM 207-208, GEOL 110-111, PHYS 103-104, PHYS 200-201
- 6-8 credit hours mathematics
  -3-4 credits MATH 106, 108, 201-204, 212 or 214
  -3-4 credits MATH 108, 201, 202, 204, or 214
- 12-14 credit hours science/mathematics electives

Note: Students who complete a mathematics sequence course with a C or better cannot take a lower sequence course for credit

Liberal Arts Electives

6 credit hours

See page 75 for definition of Liberal Arts electives.

Electives

6 credit hours

No more than six credit hours total in MUSI 100 and physical education courses carrying fewer than 3 credits may be applied towards the A.S. degree.

Other World Civilizations / The Arts

Three credits from either Other World Civilizations or The Arts.

See Course Catalog for a listing of acceptable course choices. If any of the listed courses have been taken to meet another requirement, then the “Other World Civilizations or The Arts” requirement has been met.

Health And Physical Education Elective

1 credit hour in Health or Physical education

Liberal Arts and Sciences: Mathematics and Science A.S. Concentrations in the Discipline

Within the Liberal Arts Mathematics and Science degree program, concentrations are available in Biology, Chemistry, Geographic Information Systems (GIS), and Geology to emphasize experience in a particular field for career preparation or transfer. The information below lists the courses required to fulfill specific concentrations. These concentrations are not majors, nor are they required to complete the Liberal Arts A.S. degree. The courses required for these concentrations will meet some of the Natural Sciences and Mathematics, Liberal Arts, or General Education electives that must be completed in order to earn a degree in Liberal Arts: Mathematics and Science.

Biology

Designed for students who wish to study Biochemistry, Pharmacy, Pre-Medicine, or other health profession areas.

Required Courses–Year 1

Courses		*Credit Hours*
BIOL 103 and BIOL 104 or BIOL 106		8
or		
BIOL 105-106	Botany and Zoology	8
and		
CHEM 103-104	General Chemistry I–II	8

Required Cognate and Biology Courses-Years 1 or 2
choose 5 courses from following:

Courses		*Credit Hours*
BIOL 203/204	Human Anatomy and Physiology I–II	8
BIOL 211	Genetics	4
BIOL 214	Cell Biology	4
BIOL 216	General Microbiology	4
BIOL 223	General Ecology	4
CHEM 207-208	Organic Chemistry I-II	8
PHYS 103-104	General Physics I-II	8
MATH 108	Calculus I	4
MATH 201	Calculus II	4
MATH 214	Statistics	3
Optional Recommended Courses:		
BIOL 207	Human Genetics	3
BIOL 209	Basic Nutrition	3
BIOL 208	Conservation of Natural Resources	3
BIOL 218	Emerging Infectious Diseases and Bioterrorism	3

Chemistry

Designed for students who plan to transfer to a four-year program and continue their studies in Chemistry or related areas such as Biochemistry, Pharmacy, Pre-Medicine, or Medical Technology programs.

Required Courses

Courses		*Credit Hours*
CHEM 103-104	General Chemistry I-II	8
CHEM 207-208	Organic Chemistry I-II	8
MATH 108, 201	Calculus I-II	8

Recommended Courses: PHYS 103-104

Geographic Information Systems (GIS)

Designed for students who plan to transfer to a four-year program and continue their studies in Geographic Information Systems or related areas such as Resources Management, Geography, Urban Planning, or Environmental Science. It is strongly recommended that students consult with their chosen school as early as possible to determine the appropriate course selection for optimum transferability.

Required Courses

Courses		*Credit Hours*
CHEM 103-104	General Chemistry I-II	8
GEOG 101	World Geography	3
GIS 110	Human Geography	3
GIS 111	Introduction to GIS	3
GIS 121	Remote Sensing	3
GIS 122	Spatial Modeling with Raster GIS	3
BIOL 103-106		8

Select two of the following Biology courses:

BIOL 103	Principles of Biology I
BIOL 104	Principles of Biology II
BIOL 105	Botany
BIOL 106	Zoology

Recommended Courses

BIOL 103-106		8
GEOL 110	Physical Geology	4
MATH 108	Calculus I	4
MATH 214	Statistics	3

Geology

Designed for students who plan to transfer and continue their studies in Geology or related areas such as Agronomy, Cartography, Land Use Management, Teaching, or Environmental Sciences and Engineering.

Required Courses

Courses		*Credit Hours*
GEOL 101	Earth Science*	3
GEOL 110	Physical Geology	4
GEOL 111	Historical Geology	4
CHEM 103-104	General Chemistry I-II	8
MATH 108	Calculus I	4

* GEOL 101 is a prerequisite for students who have not taken high school earth science, and is strongly recommended for any student planning to enter the teaching profession.

Recommended Courses

BIOL 105-106		
or		
BIOL 103-104		8
PHYS 103-104		8
MATH 214	Statistics	3

Mechanical Technology A.A.S.

This program is designed to prepare students for employment in the field of mechanical design and drafting, with an in-depth course of study in the technological aspects of the design profession.

Degree Requirements

Mechanical Technology is a hands-on curriculum that provides an in-depth course of study in the technological aspects of the mechanical design profession. Students are exposed to the current technology used in industry and prepared for careers in the field of mechanical design and technology.

Academic Preparation

MATH 102 competency or equivalent strongly recommended.

Career Possibilities

CAD designer, machine designer, tool designer, Architectural/mechanical drafter, engineering technician, mechanical designer, tool design, quality assurance, CNC machining,

Transfer Information

Students should consult their advisor and/or the transfer counselor in the Centers for Student Engagement and Academic Advisement for information on transfer planning. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
MATH 102	Intermediate Algebra (or higher)**	3
ENGR 103	Manufacturing Processes and Materials	3
MMT 101	Machine Tools I	3
ENGR 126	Computer Aided Design	4
		16
Second Semester		
ENGL 102	Freshman English II	
or		
ENGL 270	Technical Writing	3
MATH 104	College Algebra and Trigonometry (or higher)**	
or		
MATH 114	Technical Math (or higher)**	3
MMT 102	Machine Tools II	4
ENGR 228	Solid Modelling	3
	Technical Concentration Elective*	3
		16
Third Semester		
PHYS 103	General Physics I	4
MMT 221	Tool and Die Design	4
ENGR 207	Quality Assurance	3
	Behavioral /Social Science elective	3
	Technical Concentration Elective*	3
		17
Fourth Semester		
ENGR 203	Applied Statics and Strength of Materials	3
	Technical Concentration Elective*	4
	Technical Concentration Elective*	4
ART 103, 112 or 113		
	Art elective	3
	Health or PE	1
	Total	**15**
TOTAL CREDIT HOURS		**64**

* The courses listed in concentrations that follow must be used to fulfill degree requirements

** MATH 112, 115 or 115 will not fulfill requirements

Mechanical Technology A.A.S.
Concentrations in the Discipline

Students must choose a particular concentration area and choose four courses from the courses listed in concentration areas to fulfill degree requirements.

Computer Aided Design (CAD)

ENGR 230	Fluid Systems Design	3
MMT 220	Machine Design***	4
ENGR 125	Building Information Modeling	4
MMT 208	Advanced CAD/CAM	4
MATH 106	Precalculus	
or		
Math 108	Calculus I	3

Facilities Design

ENGR 230	Fluid Systems Design	3
ENGR 125	Building Information Modeling***	4
ENGR 220	Construction Methods & Materials	4
ENGR 221	Building Mechanical and Electrical Systems	4
ENGR 130	Renewable Energy Systems	3
BUS 260	Project Management	3
MATH 106	Precalculus	
or		
Math 108	Calculus I	3

Mechatronics

ELEC 101	Electrical Circuits	4
ELEC 209	Programmable Logic Controllers	3
ELEC 220	Industrial Power and Equipment	3
MMT 220	Machine Design***	4
MMT 208	Advanced CAD/CAM ***	4
ENGR 230	Fluid Systems Design	3
MATH 106	Precalculus	
or		
Math 108	Calculus I	3

Precision Machining

MMT 220	Machine Design***	4
ELEC 101	Electrical Circuits	4
ELEC 209	Programmable Logic Controllers	3
MMT 208	Advanced CAD/CAM ***	4
ENGR 230	Fluid Systems Design	3
MATH 106	Precalculus	
or		
Math 108	Calculus I	3

*** This course is required for the concentration area

Mechanical Technology A.A.S. Plastics Technology Option

This program is designed to prepare students for employment in the field of mechanical design and drafting, with an in-depth course of study in the technological aspects of the design profession.

Degree Requirements

Computer-aided design and mechanical design concepts are integrated throughout the curriculum and used for second-year design projects. The curriculum incorporates generally-accepted design/drafting standards as well as subjects related to the construction and manufacturing industries, allowing graduates flexibility in seeking entry-level employment. The program is also appropriate for students who wish to transfer to a four-year institution in mechanical technology. Students wishing to continue studies toward a Mechanical Technology Engineering degree are encouraged to take a higher mathematics sequence (MATH 108-201) and PHYS 103-104.

Academic Preparation

MATH 102 competency or equivalent strongly recommended.

Career Possibilities

CAD designer, machine designer, tool designer, Architectural/mechanical drafter, engineering technician, mechanical designer, tool design, quality assurance, CNC machining.

Transfer Information

Students should consult their advisor and/or the transfer counselor in the Centers for Student Engagement and Academic Advisement for information on transfer planning. Early consultation to plan the most appropriate course sequence will optimize transferability.

Courses		*Credit Hours*
First Semester		
ENGL 101	Freshman English I	3
MATH 102	Intermediate Algebra (or higher**)	3
ENGR 103	Manufacturing Processes and Materials	3
MMT 101	Machine Tools I	3
MMT 141	Fundamentals of Plastics Technology	4
		16
Second Semester		
ENGL 102	Freshman English II	
or		
ENGL 270	Technical Writing	3
MATH 114	Technical Math	
or		
MATH 104	College Algebra and Trigonometry (or higher**)	3
MMT 241	Plastics Technology: Injection Molding	4
ENGR 228	Solid Modeling	3
ENGR 207	Quality Assurance	3
		16
Third Semester		
CHEM 101	Elements of General Chemistry	
or		
CHEM 103	General Chemistry I	4
MMT 221	Tool and Die Design	4
ENGR 230	Fluid Systems Design	3
MMT 242	Plastics Technology: Blow Molding	4
	Health or Physical Education	1
		16
Fourth Semester		
ENGR 203	Applied Statics & Strength of Materials	3
ELEC	Electronics Elective	3
MMT 245	Plastics Technology Capstone	3
ART 103, 112 or 113		
	Art Elective	3
	Behavioral /Social Science Elective	3
		15
TOTAL CREDIT HOURS		**63**

** MATH 112, 115 or 115 will not fulfill requirements

Certificates

Advanced Manufacturing

This program prepares students for a career in the evolving advanced manufacturing field. Students develop expertise using manufacturing materials and processes and production tools and equipment. The program can be completed in one year, and students can apply the Advanced Manufacturing certificate credits toward the Mechanical Technology A.A.S. degree.

Courses		*Credit Hours*
First Semester		
ENGR 103	Manufacturing Materials & Processes	3
MMT 101	Machine Tools I	3
ENGR 126	Computer Aided Design	4
MATH 102	Intermediate Algebra	3
ENGR 207	Quality Assurance	3
		16
Second Semester		
MATH 114	Technical Math	3
ENGR 228	Solid Modeling	3
MMT 102	Machine Tools II	4
MMT 208	Advanced CAD/CAM	4
	Technical Elective*	3
		17

*Can be satisfied by an MMT, ENGR, or ELEC course

Computer Hardware/Software Design

Courses		*Credit Hours*
First Semester		
CS 080	Microcomputer Troubleshooting	1
BUS 225	Application Software	3
CS 120	Foundations of Computer Science	3
CS 222	Programming in C/C++	3
ELEC 101	Electrical Circuits	4
ELEC 105	Introduction to Digital Computer	4
		18
Second Semester		
BUS 226	Advanced Application Software	3
CS 200	Programming in Visual Basic	3
CS 238	Java	3
ELEC 102	Basic Electronics	4
ELEC 107	Fundamentals of Microcomputers	4
		17

Computer Information Systems

To be eligible for this certificate, the student must receive a grade of C or higher in all computer science (CS) courses. More than two semesters of study may be required to complete this certificate, and the student may also be required to attend evening classes.

Courses		*Credit Hours*
First Semester		
BUS 101	Principles of Accounting	4
BUS 225	Microcomputer Application Software	3
CS 080	Microcomputer Troubleshooting	1
CS 200	Programming in Visual Basic	3
CS 100	Keyboarding*	1
CS 120	Foundations of Computer Science	3
CS 215	Systems Analysis and Design	3
		18
Second Semester		
CS 219	Database Management Systems	3
CS 222	Programming in C/C++	3
CS 225	Introduction to Networks	3
CS 237	Internet Security	3
CS 238	Java	3
BUS 103	Principles of Business	3
		18

* Required for students who are not keyboard proficient.

Electronics

This program can be completed in a minimum of four semesters. Upon completion of the certificate requirements, students may wish to continue their study toward an A.A.S. degree in Electrical Technology.

Courses		*Credit Hours*
ELEC 101	Electrical Circuits	4
ELEC 102	Basic Electronics	4
ELEC 105	Introduction to Digital Computers	4
ELEC 107	Fundamentals of Microprocessors	4
ELEC 201	Intermediate Electronics	4
ELEC 204	Industrial Electronics	4
MATH 104	College Algebra and Trigonometry	
or		
MATH 114	Technical Math for Technologists (or higher)*	3
		27

* Math 112, 115, or 116 will not fulfill Math requirement.

Plastics Manufacturing

Plastics and polymer manufacturing constitute the 5th largest manufacturing sector in the United States. Students learn about the plastics industry, and the equipment, materials, and processes commonly used in manufacturing.

Courses		*Credit Hours*
First Semester		
MATH 102	Intermediate Algebra (or higher**)	3
ENGR 103	Manufacturing Processes and Materials	3
MMT 101	Machine Tools I	3
MMT 141	Fundamentals of Plastics Technology	4
ENGR 230	Fluid Systems Design	3
		16
Second Semester		
ENGL 101	Freshman English I	3
MMT 241	Plastics Technology: Injection Molding	
or		
MMT 242	Plastics Technology: Blow Molding	4
MMT 245	Plastics Technology Capstone	3
ENGR 207	Quality Assurance	3
	Technical Elective*	3
		16
TOTAL CREDIT HOURS		**32**

* Can be satisfied by an MMT, ENGR, or ELEC course
**MATH 112, 115 or 116 will not fulfill requirements

Curriculum Information

Academic Schools

SCHOOL OF BUSINESS

Division Chair: William Prosser
315-294-8416 • prosser@cayuga-cc.edu

Degree programs
- **Accounting**
- **Business Administration**
- **Business Administration**
  - *Concentrations:*
    - Entrepreneurship
    - Sports Management
    - Wine Studies

Certificate programs
- **Accounting, Event Management, General Business, Travel and Tourism**

SCHOOL OF HEALTH SCIENCES

Division Chair: Christie Waters
315-294-8421 • waters@cayuga-cc.edu

Degree programs
- **Liberal Arts & Sciences/Health Science**
  - *Concentrations*
    - Cardiovascular Perfusion
    - Chiropractic Medicine
    - Medical Imaging/Radiography
    - Medical Technology and Biotechnology
    - Physical Therapy
    - Radiation Therapy
- **Nursing**
- **Occupational Therapy Assistant**

SCHOOL OF SOCIAL SCIENCES AND EDUCATION

Division Chair: William Prosser
315-294-8416 • prosser@cayuga-cc.edu

Degree programs
- **Criminal Justice: Corrections**
- **Criminal Justice: Police**
- **Early Childhood**
- **Liberal Arts & Sciences/Childhood Education**
  - *Concentrations*
    - English
    - General Science
    - History/Social Sciences
- **Liberal Arts & Sciences/Adolescence Education**
  - *Concentrations*
    - Biology
    - Chemistry
    - Earth Science
    - English
    - History/Social Sciences
    - Mathematics
- **Liberal Arts & Sciences/Humanities & Social Science**
  - *Concentrations*
    - Criminal Justice
    - Early Childhood
    - Education
    - History
    - Psychology

Certificate programs
- **Criminal Justice, Corrections Administration**
- **Early Childhood**

SCHOOL OF MEDIA AND THE ARTS (SOMA)

Division Chair: Steven Keeler
315-294-8582 • keeler@cayuga-cc.edu

Degree programs
- **Liberal Arts & Sciences/Humanities & Social Science**
  - *Concentrations*
    - Literature
    - Music
    - Theatre
    - Writing
- **Studio Art & Design**
  - *Concentrations*
    - Ceramics
    - Drawing and Painting
    - Graphic Design
    - Photography
    - Printmaking
- **Audio Production**
    - Music Production Option
- **Media Production**
  - *Concentrations*
    - Broadcast Journalism
    - Film and Cinema Studies
    - Video/Digital Film Production
- **Telecommunications Technology**

SCHOOL OF SCIENCES, TECHNOLOGY, ENGINEERING AND MATH (STEM)

Division Chair: Christie Waters
315-294-8421 • waters@cayuga-cc.edu

Degree programs
- **Computer Science**
- **Computer Hardware/Software Design**
- **Computer Information Systems**
    - **Internet Technology Option**
- **Information Technology**
  - *Concentrations*
    - Creative Game Design
    - Web Design
    - Network Administration
    - Cyber Security
- **Electrical Technology: Electronics**
- **Geographic Information Systems**
- **Liberal Arts & Sciences/Mathematics**
- **Liberal Arts & Sciences/Math & Science**
  - *Concentrations*
    - Biology
    - Chemistry
    - Geology
    - GIS (Geographic Information Systems)
- **Mechanical Technology**
    - **Plastics Technology Option**
- **Mechanical Technology**
  - *Concentrations*
    - Computer Aided Design (CAD)
    - Facilities Design
    - Mechatronics
    - Precision Machining

Certificate programs
- **Advanced Manufacturing**
- **Computer Hardware/Software Design**
- **Computer Information Systems**
- **Electronics**
- **Plastics Manufacturing**

Academic Divisions and Chairs

Academic divisions and their respective chairs and academic programs follow. Division chairs may be contacted regarding:

- Permission to enter a course after the Drop/Add period
- Permission to register for more than 19 credits
- Course substitutions or waivers for degree requirements

BEHAVIORAL/SOCIAL SCIENCES, BUSINESS, CRIMINAL JUSTICE, TEACHER EDUCATION, PHYSICAL EDUCATION/HEALTH

Division Chair: William Prosser
315-294-8416 • prosser@cayuga-cc.edu

Degree programs

A.A.S. Accounting
A.S. Business Administration
A.A.S. Business Administration
Concentrations: Entrepreneurship, Sports Management, Wine Studies
A.A.S. Criminal Justice: Corrections
A.A.S. Criminal Justice: Police
A.A.S. Early Childhood
A.A. Liberal Arts: Adolescence Education
Concentrations: Biology, Chemistry, Earth Science, English, History/Social Studies, Mathematics
A.A. Liberal Arts: Childhood Education
Concentrations: English, General Science, History/Social Studies

Certificate programs

Accounting, Correction Administration, Criminal Justice, Early Childhood, General Business, Event Management,Travel and Tourism

COMPUTER SCIENCE, MECHANICAL TECHNOLOGY, ELECTRICAL TECHNOLOGY, GIS, MATH, NURSING, SCIENCE

Division Chair: Christie Waters
315-294-8421 • waters@cayuga-cc.edu

Degree programs

A.A.S. Computer Hardware/Software Design
A.A.S. Computer Information Systems
A.S. Information Technology
Concentrations: Creative Game Design, Web Design, Network Administration, Cybersecurity
A.A.S Computer Information Systems Internet Technology Option
A.S. Computer Science
A.A.S. Electrical Technology: Electronics
A.S. Geographic Information Systems
A.S. Liberal Arts and Science: Health Science
Concentrations: Medical Imaging/Radiography, Medical Technology/Medical Biotechnology, Radiation Therapy, Respiratory Therapy, Physical Therapy, Cardiovascular Perfusion, Chiropractic Medicine
A.S. Liberal Arts and Science: Mathematics
A.S. Liberal Arts and Science: Mathematics and Science
Concentrations: Biology, Chemistry, Geographic Information Systems, Geology
A.A.S. Mechanical Technology
Concentrations: Computer Aided Design (CAD) Facilities Design, Mechatronics, Precision Machining
A.A.S. Mechanical Technology: Plastics Technology Option
A.A.S. Nursing
A.A.S. Occupational Therapy Assistant

Certificate programs

Advanced Manufacturing, Computer Hardware/ Software Design, Computer Information Systems, Computer Aided Design, Electronics, Plastics Technology

HUMANITIES, ENGLISH, AND TELECOMMUNICATIONS

Division Chair: Steven Keeler
315-294-8582 • keeler@cayuga-cc.edu

Degree programs

A.A. Liberal Arts and Science: Humanities and Social Sciences
Concentrations: Criminal Justice, Early Childhood, Education, History, Literature, Music, Psychology, Theatre, Writing
A.S. Studio Art and Design
Concentrations: Ceramics, Drawing and Painting, Graphic Design, Photography, Printmaking
A.A.S. AudioProduction
Music Production Option
A.A.S. Media Production
Concentrations: Broadcast Journalism, Film and Cinema Studies, Video/Digital Film Production
A.A.S. Telecommunications Technology

DIVISION OF COLLEGE STUDIES, FULTON

Division Chair: Robert Humphrey
315-593-9366 • Robert.Humphrey@cayuga-cc.edu

Degree programs

A.A.S. Accounting
A.S. Business Administration
A.A.S. Business Administration
A.A.S. Computer Information Systems
A.A.S. Computer Information Systems: Internet Technology Option
A.S. Computer Science
A.A.S. Criminal Justice: Corrections
A.A.S. Criminal Justice: Police
A.A.S. Early Childhood
A.S. Information Technology
Concentrations: Creative Game Design, Web Design, Network Administration, Cybersecurity
A.A. Liberal Arts: Adolescence Education
Concentrations: Biology, Chemistry, Earth Science, English, History/Social Studies, Mathematics
A.A. Liberal Arts: Childhood Education
Concentrations: English, General Science, History/Social Studies
A.S. Liberal Arts and Science: Health Science
Concentrations: Medical Technology/ Medical Biotechnology, Respiratory Therapy
A.A. Liberal Arts and Science: Humanities and Social Sciences
Concentrations: Criminal Justice, Early Childhood, Education, History, Literature, Music, Psychology, Theatre, Writing
A.S. Liberal Arts and Science: Mathematics and Science
Concentrations: Biology, Geology
A.A.S. Nursing
A.S. Studio Art and Design
Concentrations: Drawing and Painting, Graphic Design

Certificate programs

Accounting, Computer Information Systems, Correction Administration, Criminal Justice, Early Childhood, General Business, all academic areas at Fulton Campus

General Education Requirements

FOR ALL A.A. AND A.S. DEGREES

SUNY General Education requirements promote broad intellectual, cultural, and social development, integrated with the specific goals of individual degree programs.

Your curriculum at Cayuga Community College will address SUNY requirements for competencies in critical thinking and information management.

To fulfill SUNY General Education requirements for an A.A. or A.S. degree at Cayuga, you must complete 30 credits of General Education courses in at least 7 of the 10 categories.

To find the specific categories needed to meet the requirements of a particular degree program, refer to the program description in this catalog.

The SUNY General Education requirements do not apply to A.A.S. degree programs. However, if you are in any A.A.S. program and plan to transfer to a SUNY school, we strongly recommend that you fulfill as much of the SUNY General Education requirements as possible. Please be sure to discuss this with your advisor.

REQUIRED BY ALL:

Basic Communication (BC)

ENGL 101	Freshman English I
ENGL 104	Advanced Expository Writing

REQUIRED BY ALL:

Mathematics (M)

MATH 102	Intermediate Algebra
MATH 104	College Algebra and Trigonometry
MATH 106	Precalculus
MATH 108	Calculus I
MATH 112	Contemporary Math
MATH 115	Concepts of Elementary Math I
MATH 116	Concepts of Elementary Math II (two-course unit)
MATH 201	Calculus II
MATH 202	Calculus III
MATH 203	Linear Algebra
MATH 204	Differential Equations
MATH 210	Math/Data Structures
MATH 212	Discrete Mathematics
MATH 214	Statistics

REQUIRED BY ALL:

Humanities (H)

COMM 101	Introduction to Mass Media
COMM 201	Media and Society
ENGL 102	Freshman English II
ENGL 165	Literary London
ENGL 230	The Bible as Literature
ENGL 231	Comics as Literature
ENGL 237	Film and Literature
ENGL 240	Mythology
ENGL 247	Native American Myth, Legend, and Literature
ENGL 255	Science Fiction and fantasy

REQUIRED BY ALL - CHOOSE AMERICAN HISTORY OR WESTERN CIVILIZATION:

American History (AH)

HIST 103	Pre and Early American History
HIST 104	19th Century American History
HIST 105	America in the 20th and 21st Centuries

Western Civilization (WC) Gen Ed Req 5

ENGL 205	English Literature to the 19th Century
ENGL 206	English Literature 19th Century to Present
HIST 101	Western Civilization I
HIST 102	Western Civilization II

REQUIRED BY ALL:

Natural Sciences (NS)

BIOL 100	Human Biology
BIOL 101	Essentials of Biology
BIOL 103	Biological Principles I
BIOL 104	Biological Principles II
BIOL 105	Botany
BIOL 106	Zoology
BIOL 203	Anatomy and Physiology I
BIOL 204	Anatomy and Physiology II
BIO 207	Human Genetics
BIOL 208	Conservation of Natural Resources
BIOL 209	Basic Nutrition
BIOL 211	Genetics
BIOL 214	Cell and Molecular Biology
BIOL 216	General Microbiology
BIOL 218	Emerging Infectious Diseases and Bioterrorism
BIOL 223	General Ecology
CHEM 101	Elements of General Chemistry I
CHEM 103	General Chemistry I
CHEM 104	General Chemistry II
CHEM 207	Organic Chemistry I
CHEM 208	Organic Chemistry II
GEOL 101	Earth Science
GEOL 110	Physical Geology
GEOL 111	Historical Geology
GIS 101	Foundations of GIS
PHYS 103	General Physics I
PHYS 104	General Physics II
PHYS 200	Physics I Mechanics
PHYS 201	Physics II Electricity and Magnetism
PHYS 202	Physics III Modern Physics

REQUIRED BY ALL:

Social Sciences (SS)

ANTH 101	Introduction to Anthropology
COMM 201	Media and Society
ECON 201	Introduction to Economics I
ECON 202	Introduction to Economics II
GEOG 101	World Geography
GIS 110	Human Geography
GIS 111	Introduction to GIS
GIS 205	Introduction to Vector GIS
PSY 101	Introductory Psychology
PSY 203	Social Psychology
PSY 205	Psychology of Personality
PSY 206	Abnormal Psychology
PSY 212	Developmental Psychology: Life Span
PSY 215	Child Psychology
PSY 216	Adolescent Psychology
PSY 222	Research Methods in Psychology
PSY 223	Introduction to Biological Psychology
PSCI 102	American Government
SOC 101	Introductory Sociology
SOC 110	Race and Ethnicity

REQUIRED BY ALL - CHOOSE ONE COURSE, EITHER FROM OTHER WORLD CIVILIZATIONS OR FROM THE ARTS:

Other World Civilizations (OW)

Art 101	Art History - Ancient to Gothic
Art 102	Art History - Renaissance to Modern
ART 139	Art of Diverse Cultures
ENGL 201	World Literature I
ENGL 202	World Literature II
ENGL 240	Mythology
ENGL 247	Native American Myth, Legend, and Literature
ENGL 250	Folklore
HIST 111	World Civilizations I
HIST 112	World Civilizations II
INT 239	Interdisciplinary Study in Native American Culture and Education
MUS 121	World Music
PHIL 203	World Religions
PSCI 214	Comparative Legal Traditions

The Arts (AR)

Art 101	Art History - Ancient to Gothic
Art 102	Art History - Renaissance to Modern
ART 103	Essentials of Art
ART 104	Painting Studio I
ART 106	Expressive Drawing I
ART 112	Two-Dimensional Design
ART 113	Three-Dimensional Design
ART 131	Introduction to Ceramics
ART 160	Life Drawing
ART 215	Computer Graphics/Illustrator
ART 231	Ceramic Sculpture
ART 250	Introduction to Photography and Darkroom Techniques
ART 252	Photoshop
ART 255	Screen Printing
ART 260	Printmaking Workshop
COMM 103	Moving Image
COMM 150	Photography: Digital Imaging, Visual Communication
COMM 207	Video Production I
COMM 208	Video Production II
ENGL 211	Creative Writing
MUS 100	College Chorus
MUS 101	Music Appreciation
MUS 102	Jazz
MUSI 104	Music Essentials
MUS 111	Rock
MUSI 112	Music in Performance
MUS 117	Rock Ensemble
MUS 120	World Rhythm Ensemble
MUS 121	World Music
MUSI 154	Piano I
MUSI 158	Guitar
MUS 200	Applied Music Lessons
THA 101	Introduction to Theatre
THA 113	Introduction to Technical Theatre (Stagecraft)
THA 152	Basic Acting

OPTIONAL:

Foreign language (FL)

*ASL 101	American Sign Language I
*ASL 102	American Sign Language II
FREN 101	Elementary French I
FREN 102	Elementary French II
FREN 103	Intermediate French I
FREN 104	Intermediate French II
SPAN 101	Elementary Spanish I
SPAN 102	Elementary Spanish II
SPAN 103	Intermediate Spanish I
SPAN 104	Intermediate Spanish II
Span 110	Accelerated Spanish
SPAN 111	Conversational Spanish I
SPAN 112	Conversational Spanish II
Span 150	Spanish for the Professions
Span 220	Spanish Literature
Span 230	Spanish Grammar

*American Sign Language may be used to satisfy this category only by students in the following programs:

• programs leading to certification in early childhood, childhood and adolescence education;

• programs leading to careers where there is likely to be significant contact with the hearing-impaired.

To discuss a waiver of General Education requirements, Contact the Office of Academic Programs 315-294-8660 or 315-294-8669

General Education Student Learning Outcomes

Cayuga's general education curricula is designed to reflect the philosophy that successful careers and satisfying lives require a wide range of skills and knowledge. Guided by the SUNY General Education requirements, the curricula is considered the foundation on which all credit programs flourish. The assessment of general education outcomes not only evaluates how well students acquire and demonstrate College level proficiencies, but contributes to improvements in pedagogy, program curriculum, and institutional-level outcomes.

BASIC COMMUNICATIONS (MANDATORY)
- Produce coherent texts within common college-level written forms
- Demonstrate the ability to revise and improve such texts
- Research a topic, develop an argument, and organize supporting details
- Develop proficiency in oral discourse
- Evaluate an oral presentation according to established criteria

MATHEMATICS (MANDATORY)
- Interpret and draw inferences from mathematical models such as formulas, graphs, tables and schematics
- Represent mathematical information symbolically, visually, numerically and verbally
- Employ quantitative methods such as, arithmetic, algebra, geometry, or statistics to solve problems
- Estimate and check mathematical results for reasonableness
- Recognize the limits of mathematical and statistical methods

NATURAL SCIENCES
- Understanding of the methods scientists use to explore natural phenomena
- Application of scientific data, concepts, and models in one of the natural sciences

SOCIAL SCIENCES
- Understanding of the methods social scientists use to explore social phenomena
- Knowledge of major concepts, models and issues of at least one discipline in the social sciences

AMERICAN HISTORY
- Knowledge of a basic narrative of American History—Political, economic, social, and cultural, including knowledge of unity and diversity in American society
- Knowledge of common institutions in American society and how they have affected different groups
- Understanding of America's evolving relationship with the rest of the world

WESTERN CIVILIZATION
- Demonstrate knowledge of the development of the distinctive features of the history, institutions, economy, society, culture, etc., of Western civilization;
  or
- Relate the development of Western civilization to that of other regions of the world

OTHER WORLD CIVILIZATIONS
- Knowledge of either a broad outline of world history,
  or
- Knowledge of distinctive features of the history, institutions, economy, society, culture, etc., of one non-Western civilization

HUMANITIES
- Knowledge of the conventions and methods of at least one of the humanities in addition to those encompassed by other knowledge areas required by the General Education program

THE ARTS
- Understanding of at least one principal form of artistic expression and the creative process inherent therein

FOREIGN LANGUAGES
- Basic proficiency in the understanding and use of a foreign language; and
- Knowledge of the distinctive features of culture(s) associated with the language they are studying

CRITICAL THINKING
- Identify, analyze, and evaluate arguments as they occur in their own or other's work
- Develop well-reasoned arguments

INFORMATION MANAGEMENT
- Perform the basic operation of personal computer use
- Understand and use basic research techniques
- Locate, evaluate and synthesize information from a variety of sources

NOTE: Critical Thinking and Information Management are competencies infused throughout the curriculum

Elective Course Disciplines

Certain programs of study include elective courses in various academic categories. Course disciplines within these categories are as follows, along with their corresponding prefixes:

BEHAVIORAL SCIENCES
- Anthropology (ANTH)
- Behavioral Sciences (BEH)
- Psychology (PSY)
- Sociology (SOC)

SOCIAL SCIENCES
- American Sign Language (ASL)*
- Economics (ECON)
- Geography (GEOG)
- History (HIST)
- Political Science (PSCI)
- Geographic Information Systems (GIS) 110, 111 and 205 may be applied as Social Sciences electives
  *May be used to satisfy Liberal Arts or free electives and the Foreign Language General Education requirement for students matriculated in Early Childhood, Education or other programs leading to careers where there is likely to be significant contact with the hearing impaired.

SCIENCE AND MATHEMATICS
- Biology (BIOL)
- Chemistry (CHEM)
- Electronics (ELEC)
- Geology (GEOL)
- Mathematics (MATH)
- Physics (PHYS)
- Engineering (ENGR) 201, 202, and 210 may be applied as Mathematics electives
- Geographic Information Systems (GIS) 101 may be applied as a Science elective

COMMUNICATIONS

ENGLISH

HUMANITIES
- Art (ART)
- Foreign Languages*
  - French (FREN)
  - Italian (ITAL)
  - Spanish (SPAN)
- Music (MUSI)
- Philosophy (PHIL)
- Theatre Arts (THA)

*For information about American Sign Language see Social Sciences above

LIBERAL ARTS
- Includes all disciplines on this page and Honors (HON) seminar, Interdisciplinary Studies (INT), and SOMA (SOM).

OTHER ELECTIVE DISCIPLINES

Certain courses in other disciplines may apply as electives in specific degree programs. Prefixes for these may include BUS, CJ, CS, DRFT, ECH, EDU, ENGR, ENTR, GIS, HLTH, INT, LIB, NURS, PE, SD, TELC. See degree program pages for details.

These disciplines and all Liberal Arts elective categories may also be used to fulfill non-specific electives in any degree program.

Degree Programs: Overview

Cayuga Community College has been authorized by the Board of Regents of the University of the State of New York to grant the Associate in Arts (A.A.), Associate in Science (A.S.), and Associate in Applied Science (A.A.S.) degrees.

Cayuga's degree programs are registered with the New York State Department of Education (the number in parentheses following the program title represents the New York State Education Department HEGIS code). You may need to attend evening classes if you wish to complete a degree program as outlined in this catalog. To complete a degree program within two years, plan to enroll beginning with fall semester and to carry at least 17 credit hours per semester for four semesters.

Each degree program listed in this catalog is in compliance with state-mandated General Education requirements. These are applicable to all students who have matriculated in these programs as of fall 2001 or later. Students who entered before fall 2001 should contact their division chair to ascertain how these changes will affect their chosen program of study.

If you wish to transfer after completing your degree at Cayuga, be advised that certain programs at upper-division colleges and universities may require basic preparation in the liberal arts and sciences, mathematics, science, and business. According to the Board of Regents for the State of New York, at least three-quarters of the credits for an A.A. degree, one-half of the credits for an A.S. degree, and one-third of the credits for an A.A.S. degree must be in liberal arts and sciences.

Information on careers is available in publications such as the Occupational Outlook Handbook and other sources located in the Centers for Student Engagement and Academic Advisement and the College Library. You should also contact the Centers for Student Engagement and Academic Advisement's transfer advisor for assistance with planning.

ASSOCIATE IN ARTS (A.A.)

The Associate in Arts (A.A.) degree may be appropriate if you plan to transfer to a four-year college or university to pursue a bachelor of arts (B.A.) or bachelor of science (B.S.) degree, and you desire basic liberal arts and science courses rather than specific career preparation. You should select elective courses in the A.A. program according to the requirements of your intended transfer institution and major field of study. If you show strong academic ability, you may want to apply for Honors study.

Cayuga offers A.A. degree programs in:

- Liberal Arts and Sciences/Humanities and Social Science (5649)
- Liberal Arts and Sciences/Adolescence Education (5649)
- Liberal Arts and Sciences/Childhood Education (5649)

ASSOCIATE IN SCIENCE (A.S.)

The Associate in Science (A.S.) degree may be appropriate if you plan to transfer to a four-year college or university to pursue a bachelor of arts (B.A.) or bachelor of science (B.S.) degree and desire a focus on science, mathematics, engineering science, computer science, or business administration. You should select elective courses in the A.S. program according to the requirements of your intended transfer institution and major field of study. If you show strong academic ability, you may want to apply for Honors study.

Cayuga offers A.S. degree programs in:

- Business – Business Administration (5004)
- Computer Science (5101)
- Geographic Information Systems (5399)
- Information Technology (5101)
- Liberal Arts and Science/Mathematics (5617)
- Liberal Arts and Science/Mathematics and Science (5649)
- Health Sciences (5299)
- Studio Art and Design (5610)

ASSOCIATE IN APPLIED SCIENCE (A.A.S.)

The Associate in Applied Science (A.A.S.) degree may be appropriate if you are looking for preparation for immediate entry into a particular career field.

Cayuga offers A.A.S. degree programs in:

- Audio Production—Music Production Option (5310)
- Business – Accounting (5002)
- Business – Business Administration (5004)
- Computer Hardware/Software Design (5104)
- Computer Information Systems (5101)
- Criminal Justice – Corrections (5505)
- Criminal Justice – Police (5505)
- Early Childhood (5503)
- Electrical Technology – Electronics (5310)
- Information Systems—Internet Technology Option (5101)
- Mechanical Technology (5303)
- Mechanical Technology—Plastics Technology Option (5303)
- Nursing (5208.10)
- Audio Production (5310)
- Media Production(5008)
- Telecommunications Technology (5310)

QUALIFICATIONS FOR A DEGREE

To qualify for a degree from Cayuga, you must:

- Matriculate and complete the degree requirements (including General Education, pages 72-73) with a minimum grade point average (GPA) of 2.0. You are matriculated if you have been formally accepted as a candidate for a degree program.
- Earn at least 30 credit hours at Cayuga. Exceptions to this policy may be made in keeping with intercollegiate articulations or other interorganizational agreements.
- Be recommended by the faculty for the degree.
- Apply for Graduation in MyCayuga at least one semester before graduation.
- Satisfy all financial obligations at the time of graduation.

For help with questions about transferring credit from other colleges, or for information about a student's academic record, contact the Registrar's Office at 315-294-8516

Certificate Programs: Overview

Cayuga's certificate programs are registered with the New York State Department of Education (the number in parentheses after the program title represents the New York State Education Department HEGIS code). You may need to attend evening classes if you wish to complete a certificate program as outlined in this catalog.

Federal Gainful Employment regulations require that students receive information about potential occupations and expenses related to their certificate goals.

To view tuition and fees, books, and other expenses associated with your certificate program, please visit **www.cayuga-cc.edu/admissions/enrollment-costs/tuition-and-fees/**

These programs may be appropriate if you are seeking specific skills but not immediately planning to pursue a two-year degree.

CERTIFICATE PROGRAMS:

- vary in length of time
- may be pursued either full- or part-time
- should be started in the fall or summer to take advantage of sequential course offerings
- require a cumulative average of 2.0 (C) with completion of all courses listed in the program (Some certificates require completion of certain courses with at least a C grade.)

CAYUGA OFFERS CERTIFICATE PROGRAMS IN:

- Accounting (5002)
- Advanced Manufacturing (5315)
- Computer Hardware/Software Design (5104)
- Computer Information Systems (5101)
- Correction Administration (5505)
- Criminal Justice (5505)
- Early Childhood (5503)
- Electronics (5310)
- Event Management (5011)
- General Business (5001)
- Plastics Manufacturing (5305)
- Travel and Tourism (5011Hi)

QUALIFICATIONS FOR A CERTIFICATE

To qualify for a certificate from Cayuga, you must:

- Matriculate and complete the certificate requirements with a minimum grade point average (GPA) of 2.0. You are matriculated if you have been formally accepted as a candidate for a certificate program.
- Be recommended by the faculty for the certificate.
- Apply for Graduation in MyCayuga at least one semester before graduation.
- Satisfy all financial obligations at the time of graduation.

For help with questions about transferring credit from other colleges, or for information about a student's academic record, contact the Registrar's Office at 315-294-8516.

Advisory Committees

Cayuga's program advisory committees assist in evaluating curricula and advise the College on technological changes and employment patterns.

ACCOUNTING

Daryl Bowker, CPA, ITT
Anne Scruton, Huhtamaki Packaging
Michael Kinney, CPA/CFE, Bonadio Group
Mary Beth Leeson, CPA, Cuddy & Ward, LLp.CPA
Joseph McConnell, Huhtamaki Packaging
Julie Rogers, CPA, Novelis Corporation
Karen Quest, CPA, NYS Chiropractic College
Robert Kawa, CPA,
Chris Bailey, Welch Allyn
Dawn Czolowski, William Prosser, Cayuga Faculty

BUSINESS ADMINISTRATION

Allison DiMatteo, Creme Della Creme Marketing Communications
David Dischiave, Professor, Syracuse University
Greg Hilton, Huhtamaki, Inc.
Robert Kawa, CPA, Lemoyne College
Gail Kinsella, New York State Accounting Association
Connie Reilly, Auburn Business Improvement District
Mark Southwick, Huhtamaki Inc.
Ed Staehr, Cornell Cooperative Extension
Meg Vanek, Cayuga County Office of Tourism
Bob Wallace, Eastern Shore Associates
Dale Weed, New Hope Mills
Loraine Miller, Amy Valente, Elizabeth McCormick, Dawn Czolowski, William Prosser, Cayuga Faculty

COMPUTER INFORMATION SYSTEMS

Adrienne Burgess, Goulds/ITT
Matt Champlin, Cayuga-Onondaga BOCES
Dave Colbert, Johnson Paper
Gary Cuthbert, Community Computer Services
Mike Davis, Beardsley Design
Dana Harris, CSC
Joe McConnell, Huhtamaki
Jim Partridge, SUNY Oswego
Ken Patterson, Morrisville State College
Terry Pontello, Tessy Plastics
Maria Starr, Nucor Steel
Luther Troell, RIT
Dia Carabajal, Donald Fama, Barry Fitzgerald, David Harbaugh, Wade Lambert, Elizabeth McCormick, Loraine Miller, Greg Szczepanski, Christie Waters, Cayuga Faculty and Staff

CRIMINAL JUSTICE

The Hononrable Michael F. McKeon, Auburn City Court Judge
Chief Tory DeCaire, Oswego City Police Department
Undersheriff Eugene Sullivan, Oswego County Sheriff's Department
Trooper Andrew Campbell, New York State Trooper
Carol Colvin, MS, CASAC, Auburn Behavioral Health Court Coordinator, Cayuga County
David Guier, Coordinator, Oswego County Drug Treatment Court
Jay DeWispelaere, Director of Probation, Cayuga County
Theresa Misiaszek, Cayuga Faculty
Paul Warren, Cayuga Faculty, Retired Oswego City Police Department
Lloyd Hoskins, Director of Assigned Counsel and Youth Services, Cayuga County, Adjunct Criminal Justice Faculty
Lt. Michael Wellauer, Cayuga County Sheriff's Department – Road Division, Adjunct Criminal Justice Faculty

EARLY CHILDHOOD

Kim Cuipylo, Director CCC Child Care Center
Nancy Tehan, ABC Cayuga
Patricia Gridley, Donna Petersen, Kathy Scozzari, Jim Bartley, Teresa Hoercher, Eric Zizza, Cayuga Staff

ELECTRICAL TECHNOLOGY AND COMPUTER HARDWARE / SOFTWARE DESIGN

Tim Clark, TRW
Michael Coppola, Paper Alternative Solutions
Donna Danylec, Girl Scouts
Kurt Herrling, Techtronics
Jeff Marier, SAAB/Sensis
Jon Salvati, Welch Allyn / Hill-Rom
Dr. Mary Taylor, SRC
Matt Wilson, Anaren
Donald Fama, Dr. Tom Karle, Michael Coppola, Dennis Sullivan, Christie Waters, Cayuga Faculty

ENTREPRENEURIAL INITIATIVE

Sue Edinger, Aurora Inn
Lee Herman, Empire State College, Auburn Unit
Donna Lamb, Schweinfurth Memorial Art Center
Thomas Paczkowski, Professor Emeritus Cayuga Community College
Christina Selvek, Cornell Cooperative Extension
Judith Shellenberger, Christopher Columbus Fellowship Foundation
William Speck, Cayuga-Onondaga BOCES
Elizabeth McCormick, William Prosser, Cayuga Faculty

MECHANICAL TECHNOLOGY
Michael Burnham, Cayuga/Onondaga BOCES
Tanya Oneri, Beardsley Design Associates
David Eno, Bo-Mer
James Hubbard, ITT Goulds Pumps
Bryan Hull, Mier Tool Co.
Tim Walawender, Currier Plastics
Raymond Lia, Welch Allyn
Rich Wride, Hammond & Irving
David Jewell, Daiken Applied
Earl Holden, Young & Franklin
Mark Garafano, Armstrong Mold
Ryan Darling, Tessy Plastics
John Campbell, Keith Reich, Christie Waters, Cayuga Faculty

NURSING
Mega Wells, Le Moyne College
Andrea Ruff, Cayuga-Onondaga BOCES
Adeline Bovie, Finger Lakes Center for Living
Victoria Casper, Upstate University Hospital
Valerie Favata, Oswego Hospital
Patricia Mattingly, Keuka College
Michele Nolan-Bell, Upstate University Hospital
Tammy Sunderlin, Auburn Community Hospital
Christie Waters, Cayuga Division Chair
Jodie Brown, Upstate Medical University SUNY College of Nursing
Brian Coleman, Oswego County Rural Health Network
Linda Alfieri, Cheryl Foster, Delecia Weathersone, Edith Smith, Brenda Forrest, Jennifer Nichols, Mary Driscoll, Cayuga Faculty.

TELECOMMUNICATIONS
Christopher P. Baycura, Video/New Media Producer
The State University of New York
College of Environmental Science and Forestry
John Coon, Stockholm Records
Josh Cradduck, Assignment Supervisor
Time Warner Cable News
Vinny Lopez CEV,CBNT,Chief Engineer, WSTM, WSTQ, WTVH, Sinclair Broadcast Group
Michael Marano, Video Memories
David H. North, Time Warner Cable (retired)
Peter Rafalow, President, Notion Pictures Productions, Inc.
Jeff Stier, ESPN Staff Camera Operator
Tim Taylor, Marketing Manager / Account Executive
WSYR-TV NewsChannel 9, Nexstar Broadcasting Group
Mike Verostek, Regional Production Director for
Kernel – A Time Warner Cable Media Company
David White, Media Relations, Segment Producer
TWC News Office of Communications, SUNY College of Environmental Science and Forestry
Tom White, Sr. Manager, Remote Operations and Engineering Time Warner Cable Sports New York
Jeff Windsor, Chief Engineer, WRVO Public Media
Steven Keeler, Cayuga Faculty
Jeffrey Delbel, Cayuga Emeritus Faculty

Course Descriptions

The College reserves the right to limit the number of students registered in any course, to cancel courses for which there is insufficient enrollment, or to make changes in prerequisites, course descriptions, credit allocations, and such schedule and section offerings in the academic year as may be necessary for the proper and efficient functioning of the College.

- "Prerequisite" denotes required coursework that must be completed before beginning a course.
- "Co-requisite" or "concurrent enrollment" denotes required coursework that may be taken concurrently with a course.
- "Recommended background" denotes suggested or supportive education/training.

The following abbreviations indicate the course counts toward a general education requirement (see pages 72-73):

Basic Communication (BC)
Math (M)
Natural Sciences (NS)
Social Science (SS)
Humanities (H)
American History (AH)
The Arts (AR)
Other World Civilizations (OW)
Western Civilization (WC)
Foreign Language (FL)

AMERICAN SIGN LANGUAGE

Courses are offered every academic year unless otherwise noted.

ASL 101 American Sign Language I (3)
This course introduces the fundamentals of American Sign Language and is designed for students with little or no previous knowledge of American Sign Language. Students will learn the basics of American Sign Language, including: finger spelling, signs, grammar, syntax, sentence structure, and basic communication skills. In addition, students will explore various facets of deaf culture. *(OW)*

ASL 102 American Sign Language II (3)
Prerequisite: ASL 101. This course is a continuation of American Sign Language I and is designed for students who want to further develop their receptive and expressive finger spelling and signing skills. The course builds on the basics of American Sign Language I, including: finger spelling, signs, grammar, syntax, sentence structure, and basic communication skills. In addition, students will continue to explore various facets of deaf culture. *(OW)*

ANTHROPOLOGY

ANTH 101 Introductory Anthropology (3)
Provides the student with a broad overview of the discipline of Anthropology. The introduction presents the student with a history of the discipline. The course focuses on the basic subfields of Anthropology: Physical Anthropology, Archaeology, Linguistics, and Ethnology, the goal of which is to obtain a comprehensive understanding of humanity. Primatology creates understanding of the physical and social similarities shared by man and his closely-related kin in the animal kingdom. Human evolution is studied with the goal of understanding the processes of both physical evolution and paleoanthropological research. The course then focuses on the development of culture, from simple hunters to advanced civilizations. Case studies are drawn from different regions to emphasize multicultural approached to resolving common human problems. Every academic year *(SS)*

ART

Courses are offered every academic year unless otherwise noted.

ART 101 Art History: Ancient to 1300 (3)
Prerequisite or concurrent enrollment: ENGL 101. Provides a background in visual arts from the prehistoric period to the fourteenth century . Studies the artistic achievements of each era within the context of important historical and philosophical developments. Emphasis on Egyptian, Greek, Roman, Pre-Renaissance, and world cultures. Explores cross-cultural comparisons, positioning the west in the world and examining the influence of trade, exploration, and cultural contact. Explores subjects using images, lectures, internet resources, and films. Three class hours weekly. *(OW) (AR)*

ART 102 Art History: 14th Century to the Present (3)
Prerequisite or concurrent enrollment: ENGL 101. Provides a chronological background in the visual arts from the fourteenth century to the present day. Studies artistic achievement in the context of culture, examining important historical and philosophical as well as aesthetic developments cross-culturally. Emphasis on Europe, England, the Americas, Asia, and Africa. Explores the subjects using images, lectures, internet resources and films. Three class hours weekly. *(OW) (AR)*

ART 103 Essentials of Art (3)
Introduces the use of foundational art techniques employed by artists, and preschool and elementary teachers. Focuses on basic design, color theory and elements of composition as well as the application of various drawing and painting techniques. Directs students' interests and talents toward an individual form of self-expression. Two lecture-demonstration hours and two studio hours weekly. This course is not intended for Studio Art and Design majors. Studio Art and Design majors may not enroll in Art 103 if they have already completed a higher level course. *(AR)*

ART 104 Painting Studio I (3)
For students with basic media and composition background, covers the fundamentals of watercolor and acrylic painting, color theory and color mixing, working from models, landscape and personal experience. The art of the past is discussed, assessed, and often utilized while encouraging new approaches to expression. Two lecture-demonstration hours and two studio hours weekly. *(AR)*

ART 105 Painting Studio II (3)
An intermediate painting course in a studio setting in which each student explores one or more of the painting media (watercolor, acrylics, pastel). Stress is on individual expression/creativity through exploration. The basic concern of painting, composition, color theory and subject matter will be discussed, thus affording the student the opportunity to develop his/her own educational "style". Two lecture-demonstration hours/two studio hours weekly. Prerequisite: Recommended background: Art 104 or equivalent

ART 106 Expressive Drawing I (3)
Presents a range of perceptual, conceptual, stylistic and technical skills. Students become familiar with many different methods of observation and presentation. Still life, landscape and conceptual methods are studied. Two lecture-demonstration hours and two studio hours weekly. *(AR)*

ART 107 Expressive Drawing II (3)
This course will be a study of techniques and media introduced in Art 106 (Expressive Drawing I). Traditional and nontraditional subject matter will be explored with emphasis on the development of body of work and personal studio practice. Two lecture-demonstration /two studio hours weekly.

ART 112 Two-Dimensional Design (3)
Explores the fundamentals of pictorial organization through a series of visual problems. Students use the elements of art (line, shape, color, texture, value) within principles of design to communicate concepts visually. Two lecture-demonstration hours and two studio hours weekly.
Offered upon indication of need *(AR)*

ART 113 Three-Dimensional Design (3)
Fundamentals of organizing three-dimensional space. Students learn to design space using line, plane, and mass. Traditional approaches (additive and subtractive techniques) as well as contemporary modes of expression. Two lecture-demonstration hours and two studio hours weekly. *(AR)*

ART 131 Introduction to Ceramics (3)
Introduces basic ceramic concepts, hand and wheel techniques, surface decoration and glazes. Develops appreciation for ceramics past and present, and awareness of three-dimensional design. Two class hours and two studio hours weekly. *(AR)*

ART 139 Art of Diverse Cultures (3)
Focuses on contemporary art being created by the diverse population of American , as well as global artists. Emphasis will be placed on artists of African, Native American, Asian and Hispanic origin. Examines the ways that contemporary work situates itself in multiple global artistic traditions of aesthetics, politics, encounter, and transgression. Explores the subject using slides, lecture, discussion, films and visiting artists. Three class hours weekly.

ART 140 Issues in Art on Location in New York (3)
An intensive on-site museum and gallery course in New York City. Students view old master works, contemporary art and new genres. Lecture visits may include major museums and galleries, as well as neighborhood art scenes, studios and open-air settings. Three class hours weekly.

ART 160 Life Drawing (3)
Drawings concentrate on the human form. Students develop an awareness of anatomical correctness and individual expression is encouraged. Utilizes a variety of drawing media. Two lecture-demonstration hours and two studio hours weekly. *(AR)*

ART 165 Issues in Art on Location - Art and Design in London (3)
Intensive on-site museum and gallery course. Students view old master works and contemporary art. This museum study course focuses on the artist as a member of society–the artist who creates art and designs for community or individual use.

ART 215 Computer Graphics / Illustrator (3)
Studio course introduces the basic techniques of digital painting and digital imaging. Students will create original imagery using Adobe Illustrator, input imagery created in another medium, and manipulate photographic imagery. Students will create and manipulate images based on formal design principles and conceptual frameworks. Two lecture/-demonstration hours and two studio hours weekly. *(AR)*

ART 231 Ceramic Sculpture (3)
Introduces students to sculptural possibilities of clay. Students build large-scale pieced or modular works using hand and wheel techniques. Two lecture-demonstration hours and two studio hours weekly. *(AR)*

ART 250 Introduction to Photography and Darkroom Techniques (3)
Introduces the basics of still photography. Students complete a number of assignments on the use of the 35mm camera system using a technical and aesthetic approach and learn photographic darkroom techniques producing finished prints for critique. Two lecture hours and two lab hours weekly. *(AR)*

ART 252 Photoshop (3)
Lectures, demonstrations and hands-on activities will enable students to discover the basic theory and application of Adobe Photoshop. Students will complete a series of aesthetically inspired assignments pertaining to captured images, processing and manipulating digital images. Images created will be displayed using a computer monitor or outputted to a printer for critique. Two lecture hours and two lab hours weekly. *(AR)*

ART 253 Digital Photography (3)
Students will acquire skills needed to fully operate and control a digital single lens reflex camera, digital image editing software and full color photographic printers. As in other art courses students will complete image assignments which will be critiqued in class. Two lecture-demonstration and two studio hours per week.

ART 255 Screen Printing (3)
Recommended background: Art 103 or 112 or equivalent. Introduces basic techniques of water-based screen printing. Students learn to print multiples of their imagery using hand-drawn stencils, reduction prints, as well as with a photographic process. Students work on producing technically strong prints as well as content and concept. Two lecture-demonstration hours and two studio hours weekly

(AR)

ART 260 Printmaking Workshop (3)
Introduces the basic techniques of relief printing using linoleum, wood and experimental media. Students also learn basic book binding structures and incorporate their printed imagery in a sequential format. Two lecture-demonstration hours and two studio hours weekly. *(AR)*

BEHAVIORAL SCIENCES

BEH 101 Language and Literacy Development in Young Children (3)
Recommended background: ECH 110. Surveys the development of language and literacy in young children from birth through eight years of age. Students will explore the foundations of learning theories and examine the research and philosophies that shape current practice as well as models that support emergent readers and writers. Additional emphasis will focus on the integration of literacy throughout the curriculum, assessment techniques, literacy and diversity, selecting children's literature, and working with families. *(AR)*

BIOLOGY

Courses are offered every academic year unless otherwise noted.

BIOL 100 Human Biology (4)
Non-sequential course for non-science majors. Balanced introduction to human anatomy and physiology, cancer, genetics and inheritance, development and aging, evolution, ecosystems and populations, human impact on biodiversity and the environment. Three class hours and one two-hour lab weekly. *(NS)*

BIOL 101 Essentials of Biology (3)
Introduces selected topics which may include cell structure and division, tissues, nutrition, digestion, internal transport, respiration, neural control and locomotion, reproduction, genetics, microorganisms and disease, and selected topics in plant biology. Two class hours and one two-hour lab weekly. *(NS)*

BIOL 103 Biological Principles I (4)
Prerequisite: BIOL 101 or high school biology. Deals with the fundamental concepts and principles of biology. Topics include cell structure and function, basic biochemistry and molecular biology, and a survey of the three domains with emphasis on the eukaryotes: protista, fungi, plantae, and animalia. Three class hours and one three-hour lab weekly. *(NS)*

BIOL 104 Biological Principles II (4)
Prerequisite: BIOL 103 or 105 or equivalent. Survey of kingdom animalia; animal structure and function including organization and homeostasis; circulatory, lymphatic, immunity, digestive, respiratory, excretory, nervous, musculoskeletal and endocrine systems; reproduction, development; the genetic basis of life. Three class hours and one three-hour lab weekly. *(NS)*

BIOL 105 Botany (4)
Prerequisite: BIOL 103. Introduces the study of plants; emphasis on physiology, structure, aspects of reproduction, ecology, taxonomy, and economic importance of plants. Three class hours and one three-hour lab weekly. *(NS)*

BIOL 106 Zoology (4)
Prerequisite: BIOL 103 or BIOL 203. Acquaintance and appreciation of animals and the nature of animal life; concerned with animal morphology, physiology, behavior, evolutionary relationships, development and evolutionary history. Three class hours and one three-hour lab weekly. *(NS)*

BIOL 165 Tropical Marine Biology I (3)
Taught on Grand Cayman Island, West Indies. Includes study of coral reef zonation, marine currents, and ecology of the coral reef, rocky shore, mangrove swamp, coral reef fish, and plankton. Includes snorkeling so students can observe and collect organisms for study. Approximately 50% of course time is spent in the field and 50% in lectures and wet labs. Offered upon indication of need

BIOL 180 Introduction to Viticulture and Enology (3)
Course covers the fundamentals of viticulture (growing grapes) and enology (making wine). The course is designed as an elective for students completing the A.A.S. degree in Business Administration with Wine Studies Concentration. Students will learn basic grape physiology such as the major varieties, pruning and trellising, soils, climate conditions, and major grape diseases. Basic fermentation techniques such as primary alcohol fermentation involving yeast and secondary malolactic fermentation involving bacteria will also be covered. Simple chemical analysis will include sulfur dioxide, alcohol, acid, and sugar determination. Students will order grapes from a winery, ferment the grapes to wine, and analyze the wine using materials and instruments supplied in their wine kits. Cross-listed as WS 180.

BIOL 203 Anatomy and Physiology I (4)
Prerequisite: BIOL 100, 101, 103 or equivalent. Human cell, tissues, skeleton system, muscle physiology, nervous system, special and somatic senses. Three class hours and one two-hour lab weekly. *(NS)*

BIOL 204 Anatomy and Physiology II (4)
Prerequisite: BIOL 203. Continuation of the study of human anatomy and physiology. Topics include circulatory, respiratory, urinary, endocrine, reproductive and digestive systems and water, electrolyte and pH balance. Three class hours and one two-hour lab weekly. *(NS)*

BIOL 206 Microbiology (3)
Prerequisite: BIOL 101 or 103 or equivalent. Surveys the principles of microbiology emphasizing the relationship of microorganisms to human disease. Two class hours and one two-hour lab weekly. Offered upon indication of need.

BIOL 207 Human Genetics (3)
Intended for non-science majors, this introductory course provides an introduction to the principles of human genetics. Topics covered include: cells; the structure, function, and regulation of DNA; the biological basis of genetics and inheritance; mutations; expression of genetic information; population genetics; genetic and reproductive technologies; and the social, ethical, and legal impacts of genetic technologies. Three class hours weekly. Prerequisites: high school biology or BIOL 100 or BIOL 101. *(NS)*

BIOL 208 Conservation of Natural Resources (3)
This course explores the human relationship with the natural environment by examining the critical issues that affect the viability of natural resources of our planet. Natural resources, their importance, distribution, and impacts from human use are examined at local, state, national and global levels. Topics include concepts of ecology, air, soil, water, energy, biodiversity, and population dynamics. This course is appropriate for science majors and non-majors. Two class hours, two lab hours weekly (Every Academic year) *(NS)*

BIOL 209 Basic Nutrition (3)
Appropriate for science majors and non-majors, also students pursuing a career in healthcare professions. Examines the fundamentals of nutrition, including nutrient composition of foods; physiological factors influencing nutritional needs; behavioral considerations related to food intake; nutrient digestion, assimilation, and storage; energy requirements; life cycle requirements; weight management; diet therapy; fad diets; manufactured food; methods used in dietary assessment and nutrition research. Three class hours weekly. *(NS)*

BIOL 211 Genetics (4)
Prerequisites: BIOL 103-104. Intended for science majors, this course emphasizes the genetic principles that underlie the molecular basis of heredity. Topics include: the structure, function, and regulation of DNA, genes, and chromosomes; the biological and molecular basis of genetics and inheritance; mutations; gene expression and regulation; population genetics; genetic technologies. Three class hours weekly, three lab hours weekly. *(NS)*

BIOL 213 Current Issues in Biology (3)
Prerequisite: BIOL 101, 103, or equivalent. Explores contemporary biological issues that are of social and economic importance. Issues selected vary from one semester to another. Oral reports, written reports, and classroom discussions are a part of the teaching format. Appropriate for non-science majors as well as science majors. Three class hours weekly.

BIOL 214 Cell and Molecular Biology (4)
Prerequisite: BIOL 103 or 105. Covers the anatomy and physiology of the plant and animal cell at a level of detail appropriate for the 200 level of instruction. Three class hours and three lab hours weekly. Offered upon indication of need *(NS)*

BIOL 216 General Microbiology (4)
Prerequisite: BIOL 100, 101, 103 or equivalent. Balanced introduction to basic microbiology (biochemistry, taxonomy, genetics, and cell biology), clinical microbiology (pathogenic bacteriology); and applied microbiology (food and industrial microbiology and ecological microbiology). Three class hours and three lab hours weekly. *(NS)*

BIOL 218 Emerging Infectious Diseases and Bioterrorism (3)
For science majors or non-majors, this course explores the role of biological, ecological, political, and socioeconomic factors in emerging infectious diseases and bioterrorism. Topics explored include the biology of specific infectious diseases, the relationships between disease agents and vectors, issues related to vaccinations and other disease treatments, the impact of globalization on the spread of emerging infectious diseases, government agencies and disease prevention, food safety, the history and current status of bioterrorism, and societal impacts of emerging infectious diseases and bioterrorism. Three class hours weekly. *(NS)*

BIOL 221 Grade A Potable Water (3)
Studies potable waters, watershed protection and management, water storage, transmission, distribution, methods of treatment, disinfection, chemical and biological analysis of water. Two class hours and one two-hour lab weekly.
Offered upon indication of need

BIOL 222 Waste Water Treatment (3)
Covers the operation and maintenance of municipal and industrial waste water treatment plants. Includes discussion of primary, secondary and tertiary treatment; nutrient removal; biological-oxidation and activated sludge; microbiology of waste water; techniques of handling, sampling and analyzing. Two class hours and one two-hour lab weekly.
Offered upon indication of need

BIOL 223 General Ecology (4)
Prerequisite: BIOL 101, 103 or equivalent. A study of the fundamental principles of the ecology of plants and animals. Topics will include components of the ecosystem; energy flow in ecosystems; ecology of populations; organization and dynamics of ecological communities with a focus on aquatic, wetland and terrestrial ecosystems. Prerequisite: biology course with laboratory. Three class hours and one three-hour lab weekly.

BUSINESS

Courses are offered every academic year unless otherwise noted.

BUS 080 Fundamentals of Bookkeeping (1)
Presents the accounting equation, emphasizing the process of analyzing and recording financial information using the double-entry bookkeeping system. Recording of basic transactions and adjustments for service and merchandising enterprises, and maintenance of accounts receivable and accounts payable records. Students currently enrolled in BUS 101 or who have received a grade in BUS 101 of C or higher may not earn credit for this course. Thirty lab hours per semester.

BUS 090 Small Business Accounting (2)
Prerequisite: BUS 101. For accounting majors, instruction in small business accounting procedures in conjunction with current accounting principles and tax requirements. Presents variation of the basic system in BUS 101 applicable to a small retail and service business. Topics include cash journals, subsidiary records, year-end cash to accrual conversion, payroll reports, sales tax reports, W-2s, 1099s, and estimated tax payments, as required of businesses operating New York State. Thirty class hours per semester.

BUS 101 Principles of Accounting I (4)
The first of a two-course introduction to accounting. Introduces financial accounting. Covers the accounting cycle, including worksheet and financial statement preparation; receivables and payables; merchandise inventory; fixed and intangible assets; accounting for cash and payroll; and system and control procedures, including bank reconciliations. Study is applied by means of an assigned accounting practice project. Three lecture hours and two lab hours weekly.

BUS 102 Principles of Accounting II (4)
Prerequisite: BUS 101. Second of a two-course introduction to accounting concluding basic elements of financial accounting and introducing managerial accounting. Includes partnership and corporate accounting, emphasizing corporate earnings, equity and investments; manufacturing inventories, job order costing; product costing and budgeting; standard costing and variances; preparation of statement of cash flows. Course study is applied by means of an assigned accounting practice project. Three lecture hours and two lab hours weekly.

BUS 103 Principles of Business (3)
Overview includes foundations of American business, forms of enterprise, organizing for business, fundamentals of management, the production of goods and services, human relations, union-management relations, marketing, accounting, finance, money and banking, securities and investments, government relations and business law. Three class hours weekly.

BUS 105 Business Mathematics (3)
Focuses on basic math combinations and shortcuts; problems in buying and selling items, including markups, markdowns, percents and discounts; preparation of banking and payroll records; and computation of simple interest and note discounts. Three class hours weekly.

BUS 106 Consumer Mathematics (3)
Prerequisite: BUS 101 or 105. Reviews basic operations, installment buying, real estate, taxes and insurance, investments, financial statements, basic statistics, present value, annuities and sinking funds. Three class hours weekly.

BUS 150 Business Communications (3)
Foundation for developing communication skills. Students apply principles of effective business and personal business correspondence. Job application and oral presentation are highlighted; also covers essentials of grammar, punctuation, spelling, use of reference materials, vocabulary enrichment. Three class hours weekly.

BUS 160 Small Business Management (3)
For students planning to own or manage a small business. Topics include the challenge of ownership and management, planning and organizing a new business, preparing a business plan, location and layout decisions, controlling the business, selecting and managing staff, marketing, accounting, financial and legal considerations. Preparing a comprehensive business plan is a course requirement. Three class hours weekly.

BUS 165 International Business: The British Experience (3)
Study/travel course acquaints students with the scope and nature of international business. Walking tours, lectures, and discussions complement visits to prominent institutions such as the Port of London Authority, Lloyds of London, Bank of England, London Transport Museum, American Embassy, London Stock Exchange, Precious Metals Exchange, and Harrods. Contact with labor and trade (import/export) organizations as well as British and American government officials is also anticipated. Requirements include readings on relevant topics, tours, presentations by officials and a research paper. Intersession only

BUS 170 Sports Management (3)
Examines the sports industry and introduces sports management careers. Management functions, unique characteristics of sports, the sports manager's roles, skills, attributes, issues, social and ethical responsibilities. Three class hours weekly.sport managers.

BUS 200 Principles of Management (3)
Recommended background: BUS 103. Provides a firm foundation in the primary principles of management. Explores management theory as well as management functions and targets discussion of top and middle managers. Recognizing that the future manager must remain abreast of business trends, current issues are addressed. Three class hours weekly.

BUS 201 Intermediate Accounting I (4)
Prerequisite: BUS 102. First segment of a two-course comprehensive study covers current financial accounting theories and practices promoted by the profession. Includes various financial statements, related schedules; current assets including cash, temporary investments, receivables; inventory valuation and cost procedures; plant and intangible assets; long-term investments, other assets. Students planning to transfer should contact their prospective institution regarding course transferability. BUS 201 accepted for CPA certification credit in New York State. Three lecture hours, two lab hours weekly.

BUS 202 Intermediate Accounting II (4)
Prerequisite: BUS 201. Second of a two-course comprehensive study of financial accounting covers current and contingent liabilities; non-current liabilities; stockholders' equity; accounting for leases, pension costs, income taxes; earnings per share and adequate footnote disclosure; statement of cash flows. Students planning to transfer should contact their intended transfer institution regarding course transferability. BUS 202 is acceptable for CPA certification credit in New York State. Three lecture hours and two lab hours weekly.

BUS 204 Marketing (3)
Recommended background: BUS 103. Concept of market strategy planning includes segmentation and forecasting of consumer and organizational markets. Marketing mix variables include product life cycles, packaging, branding, pricing objectives and strategies, physical distribution, retailing, wholesaling, advertising, public relations, sales promotion, personal selling; marketing environment, marketing research, management processes. Three class hours weekly.

BUS 205 Business Law I (3)
Emphasis is on the nature and function of law: civil and common law, contracts, agency and employment, bailments and personal property. Three class hours weekly.

BUS 206 Human Resource Management (3)
Recommended background: BUS 103. Personnel management in business; recruitment, selection, testing, employee development; psychological impact of individual and group behavior, motivation, morale, communication; management and labor relations; remuneration and security. Three class hours weekly.

BUS 207 Business Law II (3)
Prerequisite: BUS 205 or permission of instructor. Continuation of Business Law I. Topics include negotiable instruments, sales, real property, estates, bankruptcy and business organizations. Three class hours weekly.

BUS 209 Cost Accounting (3)
Prerequisite: BUS 102. Focused on the managerial aspects of cost accounting with emphasis on planning and control. Includes contemporary cost terminology, cost-volume-profit analysis, cost behavior patterns, responsibility accounting, absorption and variable costing, activity-based costing, job and process costing, budgeting, standard costing, variance analyses, accounting for joint products, by-products, spoilage, waste, defective units, and scrap. Students planning to transfer should contact their intended transfer institution regarding course credit transferability. Course is accepted for CPA certification credit in New York State. Three lecture hours weekly.

BUS 216 Personal Selling (3)
Recommended background: BUS 103. Covers the fundamentals of selling with emphasis on meeting the customer's need. Focuses on the selling process: company history and policies, product knowledge, prospecting, the preapproach, the approach, the sales presentation, the demonstration, handling objections and the close. Three class hours weekly.

BUS 217 Fraud Examination (3)
Fraud examination studies the principles and methodology of fraud detection and deterrence; how and why occupational fraud is committed, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved. The course includes such topics as skimming, cash larceny, check tampering, register disbursement schemes, billing schemes, payroll and expense reimbursement schemes, non-cash misappropriations, corruption, accounting principles and fraud, fraudulent financial statements, and interviewing witnesses. Three lecture hours weekly.

BUS 220 Business Statistics (3)
Covers the application of statistical procedure to business decision making. Considers the nature and assembling of statistical data, methods of presentation, frequency distribution, measures of central tendency, dispersion, time series, sampling techniques, estimation, hypothesis testing, regression and correlation, index numbers, probability and forecasting. Recommended for business and computer information systems/data processing students only. Three class hours weekly.

BUS 221 Accounting Systems with Microcomputer Applications (3)
Prerequisite: BUS 102, 225. Comprehensive course in accounting systems with practical Windows applications. Includes creating spreadsheet applications for financial and managerial purposes, use of computerized general ledger, accounts receivable, accounts payable, payroll, depreciation accounting systems. Two hours lecture, two lab hours weekly.

BUS 222 Federal Income Tax (3)
Prerequisite: BUS 101. An introductory course in federal taxation, presenting the basic tenets of the federal income tax system with an emphasis on the preparation of returns in accordance with current tax statutes. Course content includes coverage of such topics as determining gross income, itemized and business deductions, capital gains and losses, tax credits, tax administration and payroll taxes. Coverage of partnership and corporate returns are at the professor's discretion. Course study is applied by means of an assigned practice project. Three class hours weekly

BUS 225 Microcomputer Application Software (3)
Recommended background: basic microcomputer skills such as using Windows menus and mouse, creating, saving, and printing files. Briefly covers microcomputer hardware, the Windows operating system and its file management capabilities. Provides coverage of the features and functions of application programs for word processing, electronic spreadsheets, database management, and presentation graphics. Lecture and hands-on assignments emphasize application to typical business problems. Curriculum is based on the core competencies required for Microsoft Office Specialist (MOS) certification. Two hours lecture, two hours lab weekly.

BUS 226 Advanced Microcomputer Applications Software (3)
Prerequisite: BUS 225. Includes the advanced features of word processing, spreadsheets, database management software, presentation graphics. Topics include workgroups, forms, master documents, list and data management, macros, one-to-many and many-to-many relationships, and applications with multilevel switchboards. Students complete hands-on projects using microcomputer lab equipment and software. Curriculum is based on the intermediate-to-advanced competencies for Microsoft Office Specialist (MOS) certification. Two hours lecture, two hours lab weekly.

BUS 227 Corporate Finance (3)
Prerequisite: BUS 102. Focuses on the managerial theories and practices of corporate finance, emphasizing the making of financial decisions. Topics include the environment of finance, financial analysis and planning techniques, time value of money, capital budgeting, cost of capital, working capital management, and sources of short-term and long-term financing. Three class hours weekly.

BUS 232 Introduction to Social Media Marketing (3)
This course provides an overview of how social media has drastically changed overall marketing strategies, and how companies are embracing social media to enhance customer relationships, brand awareness, and market share. Students will explore the types of social media tools such as (Facebook, Twitter, LinkedIn, YouTube, Instagram, Google etc.), and learn strategies to implement these tools in an overall marketing plan. Students will use case studies and real-world examples to explore current examples and future opportunities of how marketing professionals have capitalized on these social media strategies.

BUS 234 Social Media Analytics (3)
Prerequisite: BUS 232. This course follows an introduction to social media marketing strategy and presents strategies for setting goals and benchmarks, establishing metrics or KPIs, tracking performance, and reporting ROIs as part of a strategic marketing plan to derive business value from social media. Case studies, analytical web tools, and team projects will be used to apply these concepts to real examples.

BUS 236 Social Media Marketing Strategy Capstone (3)
Prerequisites: BUS 232 and BUS234. This course studies the components of a successful social media strategy for an organization. Students will build a profile for an organization and include an analysis of its target audiences, establish measurable goals, identify challenges, plan policies, assign roles, set a budget, coordinate communication, apply metrics, and establish a change management plan. **BUS 239**

BUS 239 Selected Topics in Business (3)
Required background: BUS 103. Devoted to selected topics in the area of business which may include but not be limited to the following; current trends, concepts, and evolving issues in the business environment.

BUS 245 Supervisory Management (3)
Recommended background: BUS 103. Focuses on issues commonly confronting first-line managers. Topics studied include the role of supervisory management, problem solving and decision making, communication, group dynamics, motivational leadership, team building and total quality management, managing human relations and building relationships with superiors and peers. Three class hours weekly.

BUS 246 Non-Profit Accounting (3)
Prerequisite: BUS 101 & 102. Recommended: BUS 227. Designed to introduce students to the core concepts, principles and practices of Government and Not-for-Profit Accounting and financial reporting under the Governmental Accounting Standards Board (GASB). Emphasis will be focused on scope of the reporting entity, revenue/expense recognition, asset/liability valuation, budgeting, capital projects and reporting requirements. Study is applied by means of an assigned practice set.

BUS 248 Event Planning (3)
Recommended background: BUS 103. Designed to introduce students to event planning. The course will focus on the planning and management of corporate events, conferences, workshops, meetings and conventions. Specific topics will include location planning, budgeting, venue requirements/contracts, menu planning, event marketing, guest registration, and risk/issue management. Projects will involve the student volunteering in an authentic event planning experience.

BUS 249 Introduction to Tourism (3)
Recommended background: BUS 103. Designed to introduce students to the tourism industry, the course will focus on the marketing, management and economic impact of tourism. Specific topics will include an exploration of careers in tourism, tourism promotion, tourism service suppliers, destinations, economic, political, environmental and socio-cultural impacts of tourism. Projects will involve student involvement in the tourism industry.

BUS 250 Wine Business Management, Marketing, and Sales (3)
This course is a comprehensive class covering essential elements needed to succeed in the wine business. Research and demographics of wine consumers will be studied, with an emphasis on looking toward the future. Topics of study include business strategy for the wine industry, the business of enology and viticulture, supply chain management and quality control, marketing and branding, distribution, sales, tourism, media and public relations, global marketing, exporting and importing, financial aspects, accounting and tax, human resources management, legalities, establishment of a tasting room, and environmental and social responsibility. The class is limited to students 21 years of age and older.

BUS 251 Income Tax Internship (1)
This course provides students an opportunity to take what they have learned in Federal Income Tax (BUS 222) and apply that in a real-world setting. Students gain knowledge and experience through preparation of individual income tax returns. Students are required to complete eight (8) hours of training resulting in certification from the Internal Revenue Service. Students will complete 40 hours of field experience during the semester. This Income Tax Field Experience will be offered through the VITA/CA$H Program held on the Auburn Campus.
Offered Spring semester only.

BUS 252 Convention and Meeting Management (3)
This course introduces students to event management in the field of convention and meetings from pre-planning through post-event evaluation. Areas of study will include: site selection and negotiations, program development, banquet food service, function room set-up, support services, impact of IT, international considerations and current trends. This course will serve as an elective for any business student and is a required course for the Event Management Certificate program. The class will target students interested in obtaining skills in convention and meeting management area.

BUS 253 Non-Profit Event Management (3)
For nonprofit organizations, special events have become vital tools for their fundraising efforts. This course introduces students to non-profit event management from pre-planning through post-event evaluation. Areas of study will include non-profit event fundraising strategy, goals, budgeting, planning, marketing, administration, sponsorship, logistics, online considerations, volunteers, public relations and networking in the community. This course will serve as an elective for any business student and is a required course for the Event Management Certificate program. The class will target students interested in obtaining skills in non-profit event management area.

BUS 254 Marketing for Hospitality & Tourism (3)
This course is designed to provide an introduction to the general principles of marketing and an in-depth study of marketing focused on the hospitality and tourism industry. The student will be exposed to the relationship between marketing and the consumer experience with opportunities for the student to apply marketing theory utilizing case studies and experiential activities related to the tourism and hospitality industries. Special emphasis will be placed on the importance of research, social media, database marketing and public relations. This course will serve as an elective for any business student and is a required course for the Event Management Certificate program. The class will target students interested in obtaining skills in marketing for the hospitality and tourism area.

BUS 255 Tourist Destinations (3)
This course examines major tourist destinations throughout the world including the cultural, physical, economic and environmental characteristics of each destination. Tourism development and trends in tourism are explored. Recommended background: BUS 249 (Introduction to Tourism).

BUS 260 Introduction to Project Management (3)
Recommended background BUS 103. Course is designed to introduce students to project management and to the struggles and challenges associated with projects. The course will focus on the hands-on problems of managing a project. It will broadly cover the operational and conceptual issues faced by project managers. Upon completion of this course, students should be able to develop, execute, and control a basic project plan capable of supporting business objectives linked to measures of success for a single project.

BUS 271 Sports Promotion (3)
The purpose of the course is to provide the student with an overview of the sports marketing industry, as well as an overview of the issues encountered by promoters of sports organizations. Ethical and moral issues facing sports promoters will be addressed. The course will explore career opportunities in sport promotion with special emphasis being placed on helping the student understand the qualifications, skills, and career patterns of sport promotion.

BUS 275 Business Internship (3)
Prerequisites: Sophomore status with at least 30 credit hours (12 of those hours within the sponsoring academic department), a GPA of 2.5 or higher and recommendation from a business faculty member. Students enrolled in certificate programs are exempt from the 30 credit hour requirement. Course provides an opportunity for qualified students to connect classroom learning with practical work experience. Designed to help the student develop marketable skills and gain valuable contacts. Each student's internship process and completion includes learning objectives, job preparation instruction, a faculty/internship sponsor, and a site supervisor. Students will complete at least 100 hours of work experience during the semester and 20 classroom hours. Students must provide their own transportation to off-campus locations. This course is limited to students residing in New York State.

CHEMISTRY

Courses are offered every academic year unless otherwise noted.

CHEM 101 Introduction to Chemistry (4)
Prerequisite: High school algebra or MTH 099 or higher with grade of C or better
This is an introductory chemistry course suitable for pre-nursing students, students who have not taken high school chemistry, or students who need a review before taking General Chemistry I (CHEM 103). Topics include measurements, the metric system, unit conversions, atomic structure, bonding, periodic law, nomenclature, reactions, chemical calculations, states of matter, solutions, acids and bases, and a brief introduction to organic chemistry. Three class hours and one three-hour lab weekly. *(NS)*

CHEM 103 General Chemistry I (4)
Prerequisite: high school chemistry and completion of or concurrent enrollment in MATH 104. Includes basic calculations, periodic trends of the elements, introduction to precipitation, acid-base and oxidation reduction reactions, ionic and covalent bonding, introduction to thermodynamics, and gas laws. Three class hours, one three-hour lab weekly.
Offered Fall semester only. *(NS)*

CHEM 104 General Chemistry II (4)
Prerequisite: CHEM 103. Continuation of CHEM 103; includes the study of liquids, solids, phase changes, chemical kinetics, chemical and aqueous equilibria (acid-base, solubility), thermodynamics, electrochemistry, transition elements and coordination chemistry, and introduction to organic chemistry. Three class hours and one three-hour lab weekly.
Offered Spring semester only. *(NS)*

CHEM 108 Forensic Science (3)
Provides criminal justice students with a basic knowledge of forensic science as applied to criminal investigation and related police science fields. Focuses on applied forensic science, laboratory techniques and procedures. Two class hours and two lab hours weekly.

CHEM 123 Fuel Cell Systems (3)
Prerequisite: CHEM 103 and MATH 104 or higher. Fuel cell technology gives rise to a range of types of systems with varying operating parameters and applications. This course describes the operating features of a fuel cell and the underlying chemical, thermodynamic, and physical factors that determine its performance, as the basis for an appreciation of the benefits of fuel cell systems and their operating characteristics compared with conventional technology.

CHEM 207 Organic Chemistry I (4)
Prerequisite: CHEM 103-104. Study of organic compounds: nomenclature, properties, preparations; reactions, mechanisms and preparation, purification and analysis of organic materials. Laboratory work emphasizes technique and involves development of important basic skills. Preparation, purification and analysis of organic materials are also studied. Three class hours and one three-hour lab weekly. *(NS)*

CHEM 208 Organic Chemistry II (4)
Prerequisite: CHEM 207. Course is a continuation of Organic Chemistry I. Three class hours and one three-hour lab weekly. *(NS)*

CENTER FOR ACADEMIC SUCCESS

Courses are offered every academic year unless otherwise noted.

CAS 101 Foundations of Tutoring: Principles and Practices (1)
Introduction to principles and practices of peer tutoring, including theoretical background of learning theories and methodologies of one-on-one tutorials and small group cooperative learning. Philosophy, procedures and hands-on practice prepares students to be competent in the peer tutorial process.

CAS 102 CRLA Tutor Internship (2)
Prerequisite: CAS 101. Permission required. This course is designed to provide an internship opportunity to an experienced CAS/CRLA Certified tutor within a discipline-related work experience (classroom/lab/office) working at the discretion of the faculty sponsor. The four core elements include: experiential learning, professional development, performance assessment, and reflection. The student must be on-site for a minimum of 3 hours per week in addition to a 1 hour weekly meeting with the Internship Advisor.

CAS 103 CRLA Tutor Internship II (2)
Prerequisite: CAS 102. Permission required. Based upon the recommendation of the faculty sponsor and internship advisor, a student would have the opportunity to repeat the CAS 102 internship. These students would also serve as mentors to the students taking CAS 102.

COLLEGE SUCCESS

Courses are offered every academic year unless otherwise noted.

CAY 100 Foundations for College Success (1)
Cayuga 100 is designed to increase students' success in college, and is designed for students who are not able to take CAY 101. This course will introduce a few of the key On Course principles: active learning, personal responsibility, self-motivation, self-awareness, and emotional intelligence. Through readings, journals, class activities, and group projects, students will use many proven strategies for creating academic, professional and personal success. One credit hour. Note: CAY 100 or 101 may be required based on academic preparation and placement test results.

CAY 101 Foundations for College Success (3)
Cayuga 101 is designed to increase students' success in college. The purpose of the course is for students to be able to understand, evaluate, and plan to navigate critical aspects of college life at Cayuga Community College. This course will help students achieve success in college and in life by following the eight On Course principles: personal responsibility, self-motivation, self-management, interdependence, self-awareness, lifelong learning, emotional intelligence and belief in themselves. Additionally, this course will create opportunities for students to master effective study skills. Through readings, journals, class activities, group projects and a comprehensive final project, students will learn about college expectations, using many proven strategies for creating academic, professional and personal success. Three contact hours weekly. Note: CAY 100 or 101 may be required based on academic preparation and placement test results.

COMPUTER SCIENCE

Courses are offered every academic year unless otherwise noted.

CS 025 Electronic Spreadsheets (1)
Introduces the capabilities of electronic spreadsheets. Students learn how to create, save, retrieve, and print spreadsheets, write formulas, use functions, format numeric data, create graphs from spreadsheet data, sort data, and modify the spreadsheet display. Three hours per week for five weeks.

CS 035 Computer Literacy (1)
For students who wish to gain an understanding of computers and how they are used. Covers computer types, input/output devices, personal computer hardware and software including application software. Lab assignments are completed in the microcomputer lab. Course is closed to students who have completed CS 110. Five weeks/three class hours weekly.

CS 055 Introduction to Microsoft Word for Windows (1)
Introductory hands-on class emphasizes practice in creating, editing and formatting a variety of documents. No previous computer experience is necessary but typing ability of at least 30 WPM is recommended. Meets for a total of 15 hours.

CS 056 Intermediate Microsoft Word for Windows (1)
Topics covered include formatting (page size and orientation, headers and footers, column format, importing pictures), designing tables, merging files, templates, styles and style sheets, wizards, macros, and AutoText. Three class hours weekly for five weeks.

CS 070 Introduction to the Internet (1)
For students with no internet experience, includes the nature of the internet, e-mail, chat, Telnet, FTP, Usenet, ListServers, World Wide Web, search engines, and basic HTML for a web page. Includes demonstration and hands-on experience. Three class hours for five weeks.

CS 080 Microcomputer Maintenance (1)
Designed to provide familiarity with the basic hardware components of a computer system, specifically the motherboard, microprocessor, hard disk, RAM, and interface boards. Working in a laboratory setting, students complete hands-on exercises in testing, upgrading, and modifying computer components. Three class hours for five weeks.

CS 082 Help Desk Concept/ Software Concerns (1)
Prerequisite: BUS 225 or MS Office applications experience. Overview of the knowledge, skills, and concepts of typical help or support desk functioning. Also introduces selected technical problems and solutions as well as discussions of technical communications.

CS 100 Keyboarding (1)
For students who have had no previous typing instruction. Using the touch system, students learn the keyboard and numeric pad and apply this skill on a computer terminal. Meets for a total of 25 hours.

CS 103 Windows Operating Systems (1)
An understanding of Windows capabilities and features. No prior computer experience is required. Fundamentals of using the interface, working on the desktop, working with disks, creating files with Windows programs, managing files and folders, modifying the desktop work environment, installing and uninstalling programs, performing file and Web searching, and using integrated Internet Explorer features. Class meets for a total of 15 hours.

CS 110 Exploring Computer Technology (3)
Course for non–computer science majors builds computer competency and broadens perspective on the use of technology. Hands-on lab projects focus on purchasing computer systems and devices; using productivity software such as word processing, spreadsheets, presentation graphics and e-mail; file management; working in wired and wireless network environments; searching, evaluating, and citing web sources; editing digital photos; working with multimedia; and designing simple web pages.

CS 120 Foundations of Computer Science (3)
Prerequisite: Completion of, math placement beyond, or concurrent enrollment, in MATH 102. Introduction to computer science, including data storage and manipulation, operating systems, networking, algorithm development, an overview of programming languages and concepts, and the concept of software engineering. This course is intended for students enrolled in a CS, C.I.S., GIS, or engineering related program. Three class hours weekly.

CS 180 Principles of Data Communications (3)
Introduces the concepts and components of a data communication system. Covers an overview of data communications, hardware and software associated with data communications, common carriers versus private communications services, and network concepts. Three class hours weekly.
Offered upon indication of need

CS 200 Programming in Visual Basic (3)
Prerequisite: CS 120 or MATH 104 or MATH 114 or equivalent programming experience. Focuses on programming in Visual Basic and introduces computer programming using the Microsoft Visual Basic language. In developing programming techniques, students will have an available tool for exploring many areas of problem-solving with a minimum background. Two one-hour lectures/one two-hour lab weekly.

CS 215 Systems Analysis and Design (3)
Recommended background: BUS 225 or equivalent computer application experience. Covers methods involved in analyzing and designing information systems. Focuses on investigation analysis techniques; data flow diagrams; general and detail systems design; layouts for reports, outputs, and files; system development implementation and documentation. Students work on simulated case studies as a team to present solutions that reinforce the life cycle phases of systems analysis and design. Three class hours weekly.

CS 219 Database Management Systems (3)
Prerequisite: BUS 225 or equivalent experience using database management software. Focuses on the organization and design of databases that satisfy MIS requirements using relational database management systems. Builds skill in entity relationship diagramming, database normalization, and structured query language. Course also discusses the administration of a database in a client/server environment. Projects are completed in microcomputer lab. Three class hours weekly.

CS 222 Programming in C/C++ (3)
Prerequisite: CS 120 or MATH 104 or MATH 114 or equivalent programming experience. Foundation course in use of high-level language. To support assigned laboratory exercises, includes use of full-screen editor, compiler, linker, execution environment of a C compiler/interpreter, top-down programming operators, arrays, loops, pointers, control statements, data structures, file processing, disk functions, sorting/searching, and recursion. Two lecture hours, two lab hours weekly.

CS 224 Operating Systems for Micros (3)
For students with little computer experience, general introduction to computer software and Windows operating system applications, documents, managing files, word processing, graphics, customizing windows, accessories, networking, and the internet. Two lecture hours and two class hours weekly.

CS 225 Introduction to Networks (3)
Recommended background: CS 120 or related computer experience. This course includes: Fundamental Concepts of Networking, OSI Model, Router and Switch configuration, IP Addressing, Subnetting, and configuring VLANs. The course will teach the student to apply these concepts to network equipment. Two lecture hours and two lab hours weekly

CS 228 Introduction to Unix/Linux (3)
Recommended background: CS 120. Basic operating system concepts, command line programs and utilities, organization of files, processes control, multitasking, shell programming, system administration, the vi editor, and introduction to the basics of awk and perl programming for system administration. Students spend a portion of the class installing, configuring, and administering their own Linux system.

CS 235 Web Page Design and Development (3)
Recommended background: BUS 225 or related computer experience. Course provides experience in planning and developing a web page. Students work with HTML and DHTML programming language, web browser, and web page editor as tools to develop a web application. Also introduces CSS and JavaScript programming to add dynamic components to web pages. Two lecture hours and two lab hours weekly.

CS 236 Advanced Visual Basic (3)
Prerequisite: CS 200 or equivalent computer experience. Defines and teaches the basic skills of Visual Basic, including skills that enable students to browse, receive, and send objects via the internet and place text, pictures, animation, audio commentary; motion video clips; and stereo sound tracks. Two lecture hours and two lab hours weekly.

CS 237 Internet Security (3)
Recommended background: CS 120 or related experience. Introduction to network security issues including access control, communications, internet and intranet. Step-by-step explanations of design and installation of firewalls and configuring into internet services. Buffer overruns and other software development errors will also be discussed.

CS 238 Java (3)
Prerequisite: CS 120 or MATH 104 or MATH 114 or equivalent programming experience. Programs, exercises and projects focus on principles of software design and program clarity to solve real-world problems. The language uses object-oriented programming and graphical interface design. Provides graphical, animated, multimedia-based, audio-intensive, multi-threaded, network-based programs using extensive class libraries. Two lecture hours and two lab hours weekly.

CS 239 Java II (3)
Prerequisites: Math 108, CS 238. This course covers the fundamentals of algorithms and object oriented software development. Topics include: primitive and reference data types, encapsulation, information hiding, selection, iteration, functions/methods, parameters, recursion, exception handling, generic linear data structures (arrays, records/structs) and maps, file types, file I/O, simple GUIs with event handling, programming to an interface, lambda expressions, semantics of inheritance and use of polymorphism, relation with subtyping, search, select and sort algorithms, complexity notation, documentation using standard tools, program testing (unit testing) and debugging, and reasoning about control flow in a program. Two class hours and two lab hours weekly.

CS 275 Computer Technologies Internship (3)
Prerequisite: Students must have completed at least 15 credits in computer or computer-related courses and be approved by computer science faculty. This course will provide an opportunity for qualified students to connect classroom learning with practical work experience and develop skills at a job site. Students will identify their career skills and develop specific learning goals for the work assignment. Students will prepare an employment portfolio to present to employer sponsors. Relevant work experience is sponsored by an area employer for a minimum of 120 work hours and performed off campus. Class meetings per student/instructor/sponsor contract.

CRIMINAL JUSTICE

Courses are offered every academic year unless otherwise noted.

CJ 111 Introduction to Justice Systems (3)
Comprehensive survey of justice systems including historical, organizational, social, functional and administrative aspects. Provides the background and principles to introduce students to succeeding specialized courses. Three class hours weekly.

CJ 112 Organization and Administration of Justice Systems (3)
Covers the techniques of organization and administration within public safety areas. Also covers organizational control, leadership motivation and goals and the study of future trends. Three class hours weekly.
Spring semester only

CJ 115 Criminal Law (3)
Provides the student with a working knowledge of the NYS Penal Law, its application and enforcement, and its introduction into the court system. Also instructs the student on selected NYS Criminal Procedural Law sections that are applicable in the instruction of the Penal Law.

CJ 117 Juvenile Delinquency (3)
Considers factors related to delinquency and crime, problems of treatment within institutions, and the organization and administration of delinquency prevention programs at the state, county and local level. Examines juvenile court procedures and control programs. Three class hours weekly.

CJ 119 Criminal Investigations (3)
Includes the theory of an investigation, report preparation, conduct at scenes, the collection and preservation of physical evidence, proper investigation of most major crimes and related incidents. Also studies recent innovations in the investigation field. Three class hours weekly.

CJ 121 Institutional Corrections (3)
Comprehensive study of the origin and development of the philosophy of treatment, administration and structure of the correctional system; legal basis of treatment; institutional training and treatment programs, focusing on today's correctional institutions. Three class hours weekly.

CJ 123 Laws of Evidence (3)
Focuses on the preparation of evidence for court procedures. Covers preparation of materials, responsibilities and conduct of the officer in court with illustrative cases. Discussion of contemporary court issues with a possibility of actual participation in a courtroom.
Three class hours weekly.
Fall semester only

CJ 165 International Studies: Public Safety in Great Britain (3)
International study course features intensive two-week series of tours, lectures, and discussions. Participants explore British public safety issues and their historical and cultural influences and compare trends in American and British systems of public safety and law. Visits include Inns of Court, Royal Courts of Justice, Parliament House, police and fire stations, and sites not open to the general public. For criminal justice majors and others in law, law enforcement, and public safety fields. Intersession only

CJ 211 Case Studies in Criminal Behavior (3)
Prerequisite: CJ 111. Covers material from the crime to the institutionalization of the criminal. Intensive case analysis shows various types of crime and the methods, treatment and supervision of the individual. Three class hours weekly.
Spring semester only

CJ 213 Community Corrections (3)
Prerequisite: CJ 121. Comprehensive survey and examination of New York State correctional structure and its relationship to probation and parole. Examines community treatment in the correctional process, focusing on pre-sentence investigation and selection, supervision and release of probationers and parolees. Includes historical development of probation and parole, alternative treatment methods and analysis of current supervision philosophies.

CJ 220 Criminology (3)
Prerequisite: CJ 111. Studies the causes of crime and detection and treatment methods. Also covers the historical approach and modern methods. Three class hours weekly.

CJ 222 Constitutional Law (3)
Prerequisite: CJ 111. Traces the history of common law and development of case law in the United States. Development of an individual's constitutional rights is explored through Supreme Court cases. History of the Exclusionary Rule is followed through cases that changed its application. Controlling cases that apply the First, Second, Fourth, Fifth, Sixth, and Eighth Amendments of the Constitution are studied. Three class hours weekly.
Spring semester only

CJ 239 Critical Issues in Criminal Justice (3)
Prerequisite: CJ 111. Course will be devoted to selected contemporary or critical issues surrounding the field and profession of criminal justice. It may take on a particular theme or related themes in criminal justice, or a particular area of criminal justice. This course may be used as a free elective towards the criminal justice program elective, but cannot be taken in lieu of a criminal justice requirement without permission of the division chair. Three class hours weekly.

CJ 265 Internship in Criminal Justice (3)
Offered to criminal justice majors in cooperation within all the various criminal justice fields. Students have on-the-job training at the selected agency in the area of major interest. Students may participate with the respective Division Chair's authorization and must have maintained a minimum of a 3.0 GPA. In-service students may not perform independent study in the area of their regular employment. Course is limited to 3rd or 4th semester students with approval from the Division Chair. Students must provide their own transportation to off-campus locations.
Offered upon indication of need

CULINARY

Courses are offered every academic year unless otherwise noted.

CULA 100 Food Safety and Sanitation (3)
This is an introductory on the principles basic principles of food safety and sanitation in the culinary industry. Topics covered will include: New York State regulations, food handling, food storage, personal hygiene, cross contamination, and related topics. Two class hours weekly.

CULA 101 Culinary Methods and Techniques I (4)
Co-requisite: CULA 100. This course focuses on the basic principles of the Culinary Arts. Emphasis is plapced on food and kitchen safety, proper identification of kitchen tools and ingredients, "mise en place", knife skills, and proper use of tools. Professional culinary industry standards of behavior and uniform will be covered. Four class hours weekly

CULA 102 Culinary Methods and Techniques II (4)
Prerequisite: CULA 101 or equivalent. This course focuses on the techniques of basic cooking skills in the culinary industry. Topics covered will include cooking using moist, dry and combination heat; stocks, sauces and soups; advanced knife skills; and related topics. Four class hours weekly.

CULA 110 Professional Cooking Methods I (4)
Prerequisite: CULA 101 or equivalent. This course will focus on enhancing students' knowledge of the fundamental concepts and skills of basic cooking techniques. Emphasis will be placed on cooking methods for vegetables, pasta and grains; preservation and canning techniques; charcuterie preparation techniques; as well as farm and sustainable food products. Four class hours weekly.

CULA 111 Professional Cooking Methods II (4)
Prerequisite: CULA 110 or equivalent. Combines techniques covered in CULA 102 and 110 with the skills and techniques involved in the preparation of appetizers, cold food (garde manger), basic pastries, and international cuisine. Execution of menus and plate presentation is also covered. Four class hours weekly

CULA 275 Internship in Culinary Arts (3)
Prerequisite: CULA 111 or equivalent. This class consists of intensive individual study and field experience at a culinary-related facility. Requires a minimum of eight hours weekly at internship site and one weekly class meeting for progress reports and instruction. Requires periodic written reports and a journal of on-site activities. One class hour weekly.

COMMUNICATIONS

Courses are offered every academic year unless otherwise noted.

COMM 101 Introduction of Mass Media (3)
Prerequisite: ENGL 101 or concurrent enrollment. Introduces the practices and business aspects of American mass media indus¬tries. Explores the history, structure, organization, function and effects of mass media. Three class hours weekly. *(H)*

COMM 103 Introduction to Moving Image (3)
Covers the development and employment of television and film techniques. Emphasis on how these techniques are used as a form of artistic expression and create meaning. Classic films, from the silent period to the present day, and television pro¬grams are screened. Three class hours weekly. *(AR)*

COMM 150 Photography: Digital Imaging and Visual Communications (3)
Lectures, demonstrations and hands on activities will enable students to discover the basic theory and applications of film based and electronic imaging. Students will learn how to work with captured images, process and manipulate digital images, and create picture files that can be sequenced, saved or outputted to electronic imaging or printing devices. *(AR)*

COMM 201 Media and Society (3)
This course will examine the relationship between mass media and society. It will provide students with an understanding of the ways mass media and society relate to each other both his-torically and in an increasingly technologically complex modern world. The concepts of media literacy will be an integral part of the course. Three class hours weekly. *(H)*

COMM 207 Video Production I (4)
Prerequisite: TELC 104. Hands-on equipment operations course builds on knowledge from TELC 104. Lectures cover equipment use and production techniques. TV studio, portable television equipment, and editing facility are used in weekly four-hour labs. Students produce several studio and remote programs which may be cablecast for public viewing. Two class hours and four lab hours weekly. *(AR)*

COMM 208 Video Production II (4)
Prerequisite: COMM 207. Combines production knowledge from TELC 104 and COMM 207 with effective communication theory. Lec¬tures emphasize preproduction planning, audience research, and effective script design. Labs add experience and expertise in operations. Students produce studio programs for public view, and small teams work on longer remote productions requiring more sophisticated message design and technical editing. Two class hours and four lab hours weekly. *(AR)*

EARLY CHILDHOOD

Courses are offered every academic year unless otherwise noted.

ECH 101 Introduction to Early Childhood Education (3)
Concurrent enrollment in ECH 103 or 106 is required. Recommended background: PSY 215. Course examines the history and development of early childhood education as well as current trends and issues. The needs of the young child (age 0 to 8) will be studied for the purpose of applying the principles of growth and development to the use of appropriate methods, materials and activities. The development of skills to work with children, families and the community will be emphasized. Three class hours weekly.

ECH 102 Curriculum and Assessment in Early Childhood Education (3)
Prerequisite: ECH 101 and 110. Concurrent enrollment required with ECH 104 or 105. A continuation of ECH 101, this course examines various aspects of early childhood education with an emphasis on classroom management, multiculturalism, inclusion, and parent and community involvement. Issues such as assessment, philosophy of teaching, record-keeping and curriculum will also be addressed. Students will begin to apply the principles of early childhood education to the development of lessons and thematic units. Three class hours weekly.

ECH 103 Early Childhood Field Experience I (3)
Concurrent enrollment with ECH 101 required. Prerequisites: ECH 110 & GPA of 2.3. Course provides practical experience with children in preschool classrooms in Head Start programs, licensed child care centers, or elementary schools. Students gain knowledge about early childhood programs, trends, and philosophies while observing and working in classrooms serving three and four year old children. Students intern in preschool classrooms on a weekly basis for the entire semester. In addition to 5 hours of seminar/lecture hours, students complete 7 hours of fieldwork weekly for a minimum of 90 hours; including 15 hours observing children with special needs. Students must provide their own transportation to off-campus locations.

ECH 104 Early Childhood Field Experience II (3)
Concurrent enrollment with ECH 102 required. Prerequisites: ECH 110 and 103 or 106 & GPA of 2.3. Provides additional practical experience with children from five to eight years of age in an elementary school setting with an emphasis on increased involvement with children. Students develop lessons and materials and are expected to assume an active role in the teaching process by presenting their lessons and materials in the classroom. In addition to 5 seminar/lecture hours, students complete 7 hours weekly for a total of 90 hours of fieldwork. Students must provide their own transportation to off-campus locations.

ECH 105 Early Childhood Field Experience for Liberal Arts Majors (2)
Concurrent enrollment with ECH 102 required. Prerequisites: ECH 106 and 110 & GPA of 2.3. Provides practical experience with children in a preschool setting. Students gain knowledge about early childhood programs by working in classrooms serving three and four year old children. In addition to seminar/lecture 5 hours, students complete 6 hours of fieldwork weekly for a minimum of 75 hours. Students must provide their own transportation to off-campus locations.

ECH 106 Field Experience: Early Childhood (1)
Taken concurrently with ECH 101 by Early Childhood concentration students, Early Childhood Certificate students, and students taking the course as a free elective. Provides practical experience with children from birth through 8 years of age in a variety of early childhood settings. Students observe in classrooms serving infants, toddlers, preschoolers, children with special needs, and kindergarten, first and second grade. Students observe on a weekly basis for the entire semester (three hours field experience weekly) for a minimum of 30 hours and also complete five seminar hours. Students must provide their own transportation to off-campus locations.

ECH 110 Methods and Materials for Early Childhood Education (3)
Concurrent enrollment in EDU 120 recommended. This course examines the methods and materials used in early childhood classrooms. Special emphasis is placed on the selection, development, and use of a variety of teaching materials. Topics include learning centers, games, manipulatives, visuals, classroom design, technology, music, bulletin boards, and professional journals/resources. Three class hours weekly.

ECH 111 Infants and Toddlers (3)
Examination of programs, methods and materials utilized in early childhood education programs serving children from six weeks to three years of age. Special emphasis will be placed on the selection, development, and use of strategies that foster the emotional, physical, social and cognitive development of infants and toddlers. Students must complete 20 hours of observation in infant/toddler programs. Students must provide their own transportation to off-campus locations.

ECH 222 Teaching Math & Science to Young Children (3)
Prerequisites: Math 099 or pass placement test for Math 099, and ECH 110. Examines developmentally appropriate theory and methods for teaching math and science to young children. Hands-on experiences will facilitate the planning and implementation of math and science into the early childhood curriculum. Classroom visits to off-campus early childhood classrooms may be required. Students must provide their own transportation to off-campus locations

ECONOMICS

Courses are offered every academic year unless otherwise noted.

ECON 102 Personal Money Management (3)
For students who desire knowledge in managing their personal finances. Topics include budgeting; saving; borrowing; home purchasing; automobile purchasing; life, auto and home insurance; health, disability and retirement programs; estate planning; and investing. Three class hours weekly.

ECON 201 Introduction to Economics I (3)
Introduces macroeconomics and covers how societies choose to allocate scarce resources within the context of the whole economic system. Focuses on how markets function, various macroeconomic theories, the role of government in an economic system, the international economy, the role of money in an economic system, and the policy responses to the problems of inflation, unemployment and slow economic growth. Three class hours weekly. *(SS)*

ECON 202 Introduction to Economics II (3)
Recommended background: ECON 201. Focuses on the microeconomic structure of our economy including supply and demand theory, individual firm and market theory, and factor market analysis. Topics may include international trade and finance, government regulation, labor-management relations, and the economics of energy and the environment. Three class hours weekly. *(SS)*

ECON 203 Introduction to Labor-Management Relations (3)
Recommended background: ECON 201. Introduces the history and ideology of the American labor movement, collective bargaining, contract administration, dispute resolution, labor legislation and relevant economic theory. Studies contemporary labor-management issues and problems within this topical framework. Students are involved in case studies, simulation exercises, field trips, and class discussion. Guest speakers are invited. Three class hours weekly.
Offered upon indication of need

ECON 205 Money and Banking (3)
Prerequisite: ECON 201. Covers the history and functions of money and credit, commercial banking, central banking, monetary theory, other banking and credit institutions, and international banking. Three class hours weekly.
Offered upon indication of need

EDUCATION

Courses are offered every academic year unless otherwise noted.

EDU 120 Technology for Teachers (1)
Concurrent enrollment in ECH 110 recommended for all Early Childhood programs (associate degree, certificate, or concentration). Surveys classroom applications of technology with emphasis on use by the teacher.

EDU 202 Foundations of American Education (3)
Examines issues of education and the social, historical, philosophical, political, and cultural foundations which influenced their development; also examines the social purposes of education through social and behavioral sciences; explores the impact of social differences on education; helps the student develop a personal philosophy of education; and examines the relationship of schooling to democratic principles. Students must complete 20 hours of observation in classrooms based on their chosen area of interest: Childhood-1st through 6th grade or Adolescence-7th through 12th grade. Students observe 2 hours per week for the entire semester; students must provide their own transportation to off-campus locations.

EDU 203 Field Experience: Childhood/ Adolescence (1)
Students observe in classrooms based on their chosen area of interest (Childhood: grades 1-6; or Adolescence: grades 7-12). Students observe on a weekly basis for the entire semester (two hours fieldwork weekly) for a minimum of 30 hours. Students must provide their own transportation to off-campus locations. This course is only open to students transferring a Foundations of American Education course from another institution that does not include the required number of fieldwork hours.

ELECTRONICS

Courses are offered every academic year unless otherwise noted.

ELEC 101 Electrical Circuits (4)
Prerequisite or co-requisite: MATH 102. Focuses on the general principles of DC and AC circuitry with emphasis on the use of multimeters and oscilloscopes. Introduces a computer simulation program to aid the students in validating their experimental results and developing troubleshooting skills. Required of students enrolled in Electrical Technology and recommended to all students desiring a beginning course in electronics. No prior electronics knowledge is necessary. Two class hours and two two-hour labs weekly.

ELEC 102 Basic Electronics (4)
Prerequisite: ELEC 101. Introduces the diode and transistor semiconductor devices within the applications of rectification, amplification, and advanced waveform shaping. Emphasis on multimeters and oscilloscopes throughout the experimental and simulation experiments. Two class hours and two two-hour labs weekly.

ELEC 104 Electronics Drafting with CADD (3)
Studies the drafting principles and practices used in electrical and electronic design. Introduces students to the fundamentals of engineering drawings including the use of standards, orthographic projection, and dimensioning. Provides students with a basic understanding of computer aided drafting and design. Focuses on using CADD systems in the preparation of schematic diagrams, logic diagrams, connection diagrams, PLC diagrams, printed circuit board design, and electronic packaging design. Two class hours and three lab hours weekly.
Offered upon indication of need

ELEC 105 Digital Electronics (4)
Prerequisite or co-requisite: MATH 102. Concentrates on digital integrated circuits including logic gates, arithmetic circuits, flip-flops, latches, registers, and memories. Focuses on schematic analysis of a simple digital computer to complement the students' troubleshooting development and understanding of the application of digital circuits. Emphasis on logic pulsers and probes test equipment for the laboratory work, and logic analyzers for the computer simulation experiments. No prior electronics knowledge is necessary. Two class hours and two two-hour labs weekly.

ELEC 107 Fundamentals of Microcomputers (4)
Prerequisite: ELEC 105. Introduces the internal structure of microprocessors through assembly language programming exercises. Emphasizes roles of hardware and software within a microcomputer through interfacing experiments between the microprocessor and various peripheral devices. Compares the features between the 8-, 16- and 32-bit microprocessors on the market. Two class hours and two 2-hour labs weekly.

ELEC 201 Intermediate Electronics (4)
Prerequisite: ELEC 102. Focuses on oscillators, operational amplifiers, power amplifiers, Field Effect Transistors (FETs), 555-timers. Emphasizes use of multimeters and oscilloscopes for experimental and computer simulation troubleshooting exercises. Two class hours and two two-hour labs weekly.

ELEC 204 Industrial Electronics (4)
Prerequisite: ELEC 101 and ELEC 105. Focus on power control and instrumentation; emphasis on applying electronic concepts from ELEC 101, 102, 105, 201. Topics include schematics, ladder diagrams, varistors, thermistors, UJTs, DIACs, TRIACs, SCRs, hall effect sensors, photo transmitters and detectors, pressure sensors, proximity detectors, optoisolators, relays, solid state relays, timers, timing relays, solenoids, temperature sensing devices, motors. Two class hours, two two-hour labs weekly.

ELEC 207 Semiconductor Manufacturing Process Overview (3)
Recommended background or concurrent enrollment: CHEM 101. Overview of the fabrication and operation of integrated circuits and MicroElectroMechanical (MEM) devices. The course covers the process, materials, and equipment used in semiconductor manufacturing. Three class hours weekly.
Offered upon indication of need

ELEC 208 Radio Frequency Communication (4)
Prerequisite: ELEC 102. Focus on comparison of time-domain equipment (oscilloscopes, time-domain reflectometers) to frequency-domain equipment (spectrum and network analyzers). Applications of AM/FM modulation and impedance matching, characterization of microwave systems (introduces reflection coefficient, voltage standing wave ratio, insertion loss, S-parameters, Smith chart). Introduces soldering techniques, schematic interpretation, and, through computer simulations, operations behind spectrum and network analyzer test equipment. Three class hours, one two-hour lab weekly.

ELEC 209 Programmable Logic Controllers (3)
Prerequisite: ELEC 101 or ELEC 105. Focus on sequential programmable logic controllers applied to industrial processes: ladder diagrams, input/output devices, application programming design of beginning through advanced functions. Introduces a PLC simulation program to gain experience in configuring and troubleshooting software programs. Three class hours weekly.

ELEC 220 Industrial Power and Equipment (3)
Prerequisite: ELEC 101 and MATH 104 or MATH 114.This course instructs students in the basic fundamentals of electric machinery and electric power distribution. Course topics include: magnetic fields, DC Generators, DC Motors, AC Generators, AC Motors, transformers, AC motor drives, safety devices and AC power generation-distribution. Three class hours weekly.

ELEC 221 Industrial Maintenance Practices (4)
Prerequisite: ELEC 204 (or concurrent), ENGR 230 (or concurrent), ENGR 250 Thermal Technology (or concurrent), ELEC 220 Industrial Power and Equipment (or concurrent).This course instructs students in the basic fundamentals of hands on operation, maintenance, problem diagnosis, repair and proper usage of tools, schematics and manuals, of industrial equipment. Course topics include: DC motors, AC generators, transformers, AC motors, AC distribution / safety panels, stepper motors, programmable logic controllers, pipes / valves, hydraulic / pneumatic systems, heating equipment / furnaces and cooling / refrigeration equipment. Two lecture and four laboratory hours weekly.

ENGINEERING

Courses are offered every academic year unless otherwise noted.

ENGR 103 Manufacturing Materials and Processes (3)
Introduces the materials and manufacturing processes with which designers, technicians and engineers must be familiar. Includes introduction to safety, measurement, materials, metal cutting technology, and metallurgy, and introduction to standard material removal processes including drilling, milling, lathe work, surface finishing operations, and some advanced technologies. Three class hours weekly.

ENGR 125 Building Information Modeling (4)
Recommended background: ENGR 126. This course introduces students to basic concepts and techniques related to Industrial Facilities. Focuses on methods and materials employed in the construction industry for commercial buildings. Documentation of existing (as built) and projected construction will be emphasized. Students prepare a complete set of architectural construction documents during a semester-long project. CAD and BIM (Building Information Modeling) will be used in the lab. Two class hours and four lab hours weekly.

ENGR 130 Renewable and Alternative Energy Systems (3)
Prerequisite: GEOL 101 or high school Earth Science and Math 099 or equivalent. Provides an overview of alternative energy sources and their ability to meet energy needs. The fundamental concepts of solar, wind, geothermal and other sustainable energy sources will be covered. The availability, economics and environmental impact of these alternative sources will be compared. Three class hours weekly.

ENGR 126 Computer-Aided Design (4)
Develops basic drafting skills using microcomputer CAD systems. Provides the skills to develop detail drawings, including orthographic projection and application of standard dimensioning practices. Drawing assignments use CAD system operators to draw, modify, dimension and plot two-dimensional part drawings. Two class hours and four lab hours weekly.

ENGR 203 Applied Statics and Strength of Materials (3)
Prerequisite: Math 104 or Math 114. This course develops the procedures and methodology necessary for studying the effects that forces produce on structural and mechanical systems and effectively determining the strength of materials required to safely resist these forces. Topics include the study of friction, motion, forces and the effects of forces on the structural and mechanical systems on which they act, concepts of stress and strain, torsion, and reaction of materials to temperature, unusual environments and mechanical loading. Two class hours and two practicum hours weekly.

ENGR 207 Quality Assurance (3)
This course presents the basic concepts and practical applications of quality assurance in manufacturing. Studies the components of a measurement system and the use of common measurement equipment. An introduction to probability and statistics precedes the study of statistical process control. Covers quality concepts and quality systems, inspection of parts using engineering drawing specifications, as well as a variety of statistical techniques, including: control charts for variables, control charts for attributes, Pareto diagrams, and process capability studies. Two lecture hours/two lab hours weekly.

ENGR 208 Computer Numerical Control (4)
Prerequisite: ENGR 103, 228 and MATH 104. Prepares students with the necessary skills to program CNC machine tools. The industry standard EIA RS-274D "G and M Code" programming is used to produce a part on the CNC equipment. Lectures cover CAD/CAM applications, programming, sub-routines, tooling, work holding and cutting theory. The laboratory allows students to practice by programming and machining parts. Three class hours and two lab hours weekly.

ENGR 220 Construction Methods and Materials (4)
Prerequisite: ENGR 126 and ENGR 125. Introduces basic construction materials, their properties, manufacture and application to the building industry. Focuses on the proper design of various building elements—foundations, floors, walls and roofs—and the selection of suitable building materials and products. Three class hours and two lab hours weekly.
Offered upon indication of need

ENGR 221 Building Mechanical and Electrical Systems (4)
Prerequisites: ENGR 126 and ENGR 125. Familiarizes students with systems which must be engineered and safely integrated into a building: hot water heating, HVAC, water supply, sanitary and storm drainage, lighting, electrical supply, and occupant safety systems. In the laboratory, students design and lay out a heating, cooling, water supply, sanitary drainage, storm drainage, lighting and electrical system for an industrial building. Three class hours and two lab hours weekly.
Offered upon indication of need

ENGR 228 Computer Aided Drafting III - Solid Modeling (3)
Assumes basic knowledge of computer-aided drafting and design concepts and proficiency in using system menus to create 2- and 3-dimensional drawings. Covers 3D solid modeling sketching, profiling, constraining, dimensioning, viewing, editing, revolving, sweeping, lofting, and other advanced techniques, solid assembly modeling with advanced drawing creation, and annotation techniques. Techniques and assembly drawings are the main focus. Two class hours and two lab hours weekly.

ENGR 230 Fluid Systems Design (3)
Recommended Background ENGR 228. This course instructs students in the design principles and industry standards required for fluid systems. Course topics include pipe, fitting and valve specification; process equipment; pipe support and instrumentation; the fundamental principles of fluid mechanics; and hydraulic and pneumatic system equipment, principles and design. Two class hours and two lab hours weekly.

ENGR 250 Thermal Technology (3)
Prerequisite: MATH 104 or MATH 114. This course instructs students in the basic fundamentals of heat transfer, thermodynamics and their applications in heating and cooling. Course topics include: temperature, heat, phase changes, laws of thermodynamics, heat engines, air cooling systems, heat pumps, furnaces and ventilation. Three class hours weekly.

ENGR 251 Special Topics in Engineering Technology (1)
Devoted to a specific topic or area of study in Mechanical or Electrical Engineering Technology. Provides an opportunity for in depth study in an area not covered in other engineering technology courses. Offered upon indication of need.

ENGR 253 Special Topics in Engineering Technology (3)
Devoted to a specific topic or area of study in Mechanical or Electrical Engineering Technology. Provides an opportunity for in depth study in an area not covered in other engineering technology courses. Offered upon indication of need.

ENGLISH

Courses are offered every academic year unless otherwise noted.

ENGL 049 English Skills (No Credit)
Reinforces ENGL 098 with additional instruction and practice in lab settings with word processing. Instructors meet with students individually to identify skill needs and work on areas of deficiency. Students must register concurrently in a paired section of ENGL 098. Three class hours weekly.

ENGL 097 Fundamentals of Reading (No Credit)
Designed to assist students in developing reading skills so they are prepared to handle college-level reading materials. Students are presented with techniques in vocabulary development and comprehension skills as well as strategies for learning from college textbooks. Three class hours weekly.

ENGL 098 Fundamentals of Writing (No Credit)
Designed for the study and improvement of basic writing skills and techniques, focusing on grammar, the sentence, the paragraph and short essay. Three class hours weekly.

ENGL 101 Freshman English I (3)
Basic composition course includes reading expository prose and short stories, writing expository themes, and practicum research techniques. Three class hours weekly. NOTE: Based on academic preparation and placement test results, ENGL 097 and/or ENGL 098 may be required before enrolling in ENGL 101. *(BC)*

ENGL 102 Freshman English II (3)
Prerequisite: ENGL 101. Continuation of ENGL 101. Includes introduction to literature (novel, drama, poetry) and writing critical themes based on readings. Three class hours weekly. *(H)*

ENGL 104 Advanced Expository Writing (3)
Prerequisite: ENGL 101. Designed to improve the ability to write effectively in expository and argumentative composition. Appropriate forms of discourse, methods of organization, support, style and logic. Three class hours weekly. NOTE: Course may be used as an English or Liberal Arts elective, but cannot be taken in lieu of required English courses.
Offered upon indication of need *(BC)*

ENGL 110 Writing Research in the Discipline (1)
Prerequisite: ENGL 101. Provides intensive instruction in the writing of research in specific disciplines: behavioral and social sciences, natural sciences, business, humanities, etc. Three class hours per week for five weeks. NOTE: Course cannot be taken in lieu of any required English course.

ENGL 120 Being Writers (1)
Prerequisite: Engl 101 or concurrent enrollment in Engl 101. This course introduces students to different writer goals and practices through prompts and peer workshopping. Also included is a brief history of writing studies as a discipline and career opportunities.

ENGL 121 Being Writers II (1)
Prerequisites: Engl 120, Engl 102 or concurrent enrollment in Engl 102. This course continues goals and practices developed from Being Writers by approaching texts as a process, adopting genres, balancing aesthetics with textual efficiency, and demonstrating liberal arts knowledge through engagement. Emphasis includes revision and developing a portfolio of creative and professional writing.

ENGL 150 College Reading and Study Skills (3)
Improves understanding of the learning process for more effective reading and studying. Presents theories, techniques and practice in reading comprehension, organization, vocabulary development, textbook analysis, library and research skills, study and listening habits. Three class hours weekly. NOTE: May not be taken in lieu of a required English course.

ENGL 165 Literary London (3)
Recommended background: ENGL 101-102. Literary London is an intensive, on-site course that examines London through the lens of selected samples of English Literature. In the manner of Chaucer, modern day literary pilgrims will travel to various London sites that they will explore through the poetry, fiction, nonfiction, and drama of various periods of British literature (medieval to contemporary). Tours, lectures, discussions, and walks will locate the literature students read in a specific place while the literary pieces will deepen students' understanding of the history, geography, and culture of the city. *(H)*

ENGL 201-206
Depending upon curriculum, one or more of these courses must be taken to satisfy the English requirement in literature.

ENGL 201 World Literature I (3)
Prerequisite: ENGL 101-102. Surveys significant writings in world literature with focus on values, techniques and major movements in literature from ancient to early modern. Analyzes literary, cultural, historical and philosophical impact of the works on diverse images of human identity. Includes works and writers such as ancient Egyptian poetry, Hebrew Bible, Bhagavad-Gita, Qu'ran, Plato, Confucius, Ferdowski, Shikibu and the No Theater. Three class hours weekly. *(OW)*

ENGL 202 World Literature II (3)
Prerequisite: ENGL 101-102. Continues from ENGL 201 to focus on poetry, short stories, plays and short novels of major writers from modern to contemporary works. Analysis and evaluation of historical, literary and cultural values includes such writers as Tagore, Joyce, Tuquan, Basho, Senghor, Mahfouz, Neruda, Achebe and Soyinka. Three class hours weekly. *(OW)*

ENGL 203 American Literature to the Late 19th Century (3)
Prerequisite: ENGL 101-102. Surveys significant writing from the 17th, 18th and 19th centuries in American literature. Analysis includes the general movements of thought, literary techniques and themes revealed in the works of representative writers. Also may consider selected works of late 19th and turn-of-the-century writers. Three class hours weekly.

ENGL 204 American Literature Late 19th Century to Present (3)
Prerequisite: ENGL 101-102. Continuation of ENGL 203. Surveys American prose, poetry, and drama in the late 19th and 20th centuries. Analysis includes the general movements of thought, literary techniques and themes revealed in the works of representative writers. Three class hours weekly.

ENGL 205 English Literature to the 19th Century (3)
Prerequisite: ENGL 101-102. Surveys literature of England from Beowulf, tracing major contributions and movements. Historical, philosophical and aesthetic influences of significant writers, and development of poetry and drama as genres through Beowulf, Chaucer, Spenser, Shakespeare, Milton, Dryden, Pope, Swift and Johnson. Three class hours weekly. *(WC)*

ENGL 206 English Literature 19th Century to Present (3)
Prerequisite: ENGL 101-102. Survey of English literature analyzes development of poetry, drama and novel as genres. Presents significant philosophical, historical and aesthetic influences; emphasis on such figures as Wordsworth, Coleridge, Shelley, Byron, Keats, Browning, Tennyson, Arnold, Carlyle, Shaw, Conrad, Yeats and Eliot. Three class hours weekly. *(WC)*

ENGL 207 Shakespeare (3)
Prerequisite: ENGL 101-102. Studies Shakespeare's dramatic art through his treatment of character, theme, form, and structure. Readings include early and later tragedies, comedies, histories, and non-dramatic works. Includes focus on Shakespeare as a representative of Elizabethan England. Papers required on topics such as biographical materials, dramatic companies, theatres, sources, criticism. Three class hours weekly. NOTE: May be used as an English or Liberal Arts elective, but cannot be taken in lieu of required literature courses.
Alternate academic years

ENGL 209 Children's Literature (3)
Prerequisite: ENGL 101. Survey course covers traditional and contemporary children's literature. Fairy tales and other works emerging from oral tradition, picture books, poetry, juvenile novels, and non-fiction and informational books are all considered, for both general literary qualities and what they offer to children. Course develops critical perceptiveness. Three class hours weekly. NOTE: Required for Early Childhood students and for those planning a career in elementary education. May also be used as an English or Liberal Arts elective, but cannot be taken in lieu of required literature courses.

ENGL 211 Creative Writing (3)
Prerequisite: ENGL 102, or concurrent enrollment in ENGL 102, required. Develops the abilities of students interested in creative writing with an emphasis on the techniques used in writing modern short stories and poems. Practice is provided in preparing manuscripts for possible publication. Three class hours weekly. NOTE: May be used as an English or Liberal Arts elective, but cannot be taken in lieu of any required English course. *(AR)*

ENGL 217 Media Writing (3)
Prerequisite: ENGL 101. A basic course focusing on writing and preparing information for the mass media. Covers techniques for writing for print (newspaper and magazine), broadcast (radio and television), advertising, public relations and online media. Three class hours weekly. NOTE: May be used as an English or Liberal Arts elective, but cannot be taken in lieu of a required English course.

ENGL 221 Effective Speech: Public Address (3)
Prerequisite: ENGL 101. Designed to develop an ability to meet, with some ease and competence, demands for speaking by the educated person: concepts, physical behavior, vocal quality, preparation, organization; development and delivery of basic types of public speeches. Three class hours weekly. NOTE: Course is required in certain curricula and may be used as an English or Liberal Arts elective, but cannot be taken in lieu of a required literature course.

ENGL 220 - Interpersonal Communications (3)
Prerequisite: ENGL 101. This introductory course is designed to increase understanding of effective interpersonal communication behavior and skills in order to increase success in academic, professional and social situations. The course examines communication concepts, theory and the application of communication principles involved with human interaction in various contexts. Course content includes communication theory, perception, verbal and non-verbal communication, effective listening, intercultural communication, conflict management, and relational communication. Three class hours weekly.

ENGL 222 Effective Speech: Group Discussion (3)
Prerequisite: ENGL 101. The theories and principles of group communication. Designed to enable students to develop problem-solving, decision-making, conflict management, and leadership skills in group situations. Students participate in group projects to set goals, plan strategies, and present results. Three class hours weekly. NOTE: Course is required in certain curricula and may be used as an English or Liberal Arts elective, but cannot be taken in lieu of a required literature course.

ENGL 226 Contemporary American Novels (3)
Prerequisite: ENGL 101-102. Representative writers of post-World War II America, focusing on the ways that novels reflect contemporary society. Selected writers include Norman Mailer, Saul Bellow, Flannery O'Connor, Robert Penn Warren, John Updike, Eudora Welty, John O'Hara, Truman Capote, Philip Roth and others. Three class hours weekly. NOTE: May be used as an English or Liberal Arts elective, but cannot be taken in lieu of required literature courses.
Offered upon indication of need

ENGL 227 Poetry: Poems and Poets (3)
Prerequisite: ENGL 102, or concurrent enrollment in ENGL 102, required. Detailed introduction to the poetry genre through reading, listening to, discussing, and writing about poems and poets. Not confined to any period or nationality; rather, considers a wide range of possibilities, styles and concerns of poetry. Special attention to the work of selected poets, both old and new, for a sense of individuality and variety of vision and language. Three class hours weekly. NOTE: May be taken as an English or Liberal Arts elective, but cannot be taken in lieu of any required English course.

ENGL 230 The Bible as Literature (3)
Prerequisite: ENGL 101. Literary survey of the Bible including epic literature, lyric poetry, epistolary literature, wisdom literature and prophetic literature. The course's intent is to present a non-theological approach to Bible study with emphasis on its literary merit as evidenced through the various types of literature previously listed. Three class hours weekly. NOTE: May be used as an English or Liberal Arts elective, but cannot be taken in lieu of required literature courses.
Alternate academic years *(H)*

ENGL 231 Comics as Literature (3)
Prerequisite: ENGL 102, or concurrent enrollment in ENGL 102, required. Analysis of the comic book in terms of its unique poetics (interplay of word and image); themes suggested in various works; history and development of the form and its subgenres, expectations of readers. Also explores the influence of history, culture, and economics on comic book artists and writers, definitions of "literature," how these apply to comic books, and the resulting tensions. *(H)*

ENGL 234 Captivity, Punishment, and Torture (3)
Prerequisite: ENGL 101-102. Issues of captivity, punishment, and torture are addressed through the discipline of the Humanities. Exploring human constructs and concerns through memoir, biography, and fiction, includes experiences of captives; forms of punishment from corporal to incarceration to capital punishment; definitions of torture; impact on survivors, effectiveness in obtaining information, and making torture acceptable to the torturer and civil society.

ENGL 235 Women and Writing (3)
Prerequisite: ENGL 102, or concurrent enrollment in ENGL 102, required. Explores the relationship between women and writing and the challenge writing has posed for women. Focus is on writing by women; also considers how women have been represented by men. Features such 19th- and 20th-century writers as Charlotte Bronte, Mary Shelley, Edith Wharton, Emily Dickinson, Jane Austen, and Toni Morrison. Three class hours weekly.

ENGL 237 Film and Literature (3)
Prerequisite: ENGL 102, or concurrent enrollment in ENGL 102, required. The relationships between film and literature, particularly novels adapted for the screen. Reading of selected novels and some plays, viewing film versions, discussion and analysis. Three class hours weekly. Note: May be used as an English or Liberal Arts elective, but cannot be taken in lieu of any required English course. *(H)*

ENGL 238 Special Topics (1)
Recommended background: ENGL 101-102. Devoted to a theme or topic in literature of language or to the works of a major writer or select group of writers. NOTE: May be used as an English or Liberal Arts elective, but cannot be taken in lieu of required literature courses. Three class hours weekly for five weeks or equivalent.

ENGL 239 Special Topics (3)
Recommended background: ENGL 101-102. Devoted to a theme or topic in literature of language or to the works of a major writer or group of writers. NOTE: May be used as an English or Liberal Arts elective, but cannot be taken in lieu of required literature courses. Three class hours weekly.

ENGL 240 Mythology (3)
Prerequisite: ENGL 101. A survey of representative cosmogonies, major deities, and hero tales: Graeco-Roman, Teutonic, Middle Eastern, North and South American, and Asiatic. The course considers the descriptive tales and the polytheistic concepts of at least one representative culture from each major area. Three class hours weekly. NOTE: This course may be used as an English or Liberal Arts elective but cannot be taken in lieu of required literature courses. *(H)(OW)*

ENGL 245 African-American Literary Traditions (3)
Recommended background: ENGL 101-102. Examines the content, form, and literary devices and techniques of selected African-American literature from slavery to contemporary; fosters an understanding of negative consequences of racial stereotyping. Three class hours weekly.
Offered upon indication of need

ENGL 247 Native American Myth, Legend, and Literature (3)
Introduces Native American creation myths and trickster tales. Follows the development of myth and legend into a distinctive Native American literary form, covering pertinent Native American culture and history. Three class hours weekly. *(H)(OW)*

ENGL 250 Folklore (3)
A survey of world folklore studying the more representative literary forms including traditional folk and fairytales, nomenclature, riddles, rhymes, legends, songs, ballads, enchantments, and superstitions. Selected tales, formats, and retellings will be examined to trace the development of worldview and identity. Emphasis is on the uniting qualities of folklore for various civilizations and as constructed by their cultural context. Three class hours weekly. Prerequisite: English 101. NOTE: This course may be used as an English or Liberal Arts elective but cannot be taken in lieu of required literature courses.
Alternate academic years *(OW)*

ENGL 255 Science Fiction and Fantasy (3)
Prerequisite: ENGL 101. Recommended background: ENGL 102. This introduction to the historical background of science fiction explores the relationship between science fiction and classical horror and fantasy literature, and suggests critical methodologies for reading and writing about such material. Students are asked to enjoy this literature, view it critically, and note how it reflects concerns not only for the future but also for its own cultural time period. Three class hours weekly. *(H)(OW)*

ENGL 260 Professional Writing Practicum (3)
Prerequisite: ENGL 101. This course introduces students to several forms of professional writing, such as grant writing and publicity writing that call for higher level writing skills. Students then gain professional experience by working with actual clients and developing written material to accommodate their needs.

ENGL 270 Technical Writing (3)
Prerequisite: ENGL 101. Designed to help students understand the process of creating, shaping, and communicating technical information so that people can use it safely, effectively, and efficiently. Students will learn that technical documents are addressed to particular readers; technical documents help those readers solve problems, are part of an organizational context, are often created collaboratively, using design to increase readability, and involve graphics. Students will practice writing technical documents that are honest, clear, accurate, comprehensive, accessible, concise, professional in appearance, and correct. Such documents may include memos, email, and letters; instructions; definitions and descriptions; proposals and formal written reports; job application material including cover letters and resumes. NOTE: This course may be used as an English or Liberal Arts elective but cannot be taken in lieu of required English courses.

ENTREPRENEURIAL STUDIES

Courses are offered every academic year unless otherwise noted.

ENTR 200 The Entrepreneurial Process (3)
Covers the role of social and economic entrepreneurship and its impact on local, regional, national, and global cultures and economies. Students will evaluate the skills and commitment necessary to successfully operate an entrepreneurial venture, and will review the challenges and rewards of entrepreneurship as a career choice, as well as entrance strategies to achieve the goal. Students can explore areas and projects of interest individually and in teams. Three class hours weekly

ENTR 202 Innovation and Creativity (3)
This course is designed to have the student learn the value of innovation and creativity in achieving successful outcomes. They will investigate the relationship between entrepreneurial thinking and the creative mindset that leads to idea generation and new venture creation. The student will explore the factors that inspire and promote creativity in individuals and organizations. The student will develop skills and techniques for working in teams to find innovative solutions to existing and emerging challenges applicable to profit and non-profit entities. Four contact hours.

ENTR 204 Social Entrepreneurship & Non-Profit Management (3)
This course is designed to have the student learn the process of recognizing and pursuing opportunities to create social value. The student will learn to be more innovative, resourceful and results-oriented. They will learn to draw upon the best thinking in both the business and non-profit worlds to develop strategies that maximize their social impact. Effective administrative and management techniques and practices will also be explored as they apply to social enterprises. Three contact hours per week.

FRENCH

Courses are offered every academic year unless otherwise noted.

FREN 101–102, 103–104
Elementary and intermediate foreign languages begin in the fall as a year sequence. Students who need a full year should be aware of this. When in doubt about placement, seek advice from foreign language faculty or the Humanities Division chair.

FREN 101-102
Elementary French I-II (4)
First-level comprehensive courses build a foundation in communication through necessary structures and vocabulary to function in everyday situations. The four skills (listening, speaking, reading, writing) are developed through class, labs, and assignments. Films, computer games, word processing, interactive videos and simple readings provide information on the French-speaking world and reinforce the curriculum. Recommended for beginning students to meet a foreign language requirement for degree or career. (Students who have had French through Regents level may not enroll in FREN 101-102.) Three class hours weekly/required lab. FREN 101 is the prerequisite for FREN 102 *(FL)*

FREN 103-104
Intermediate French I-II (3)
Reviews and refines understanding of the structures of French, broadens the speaking and reading vocabulary and comprehension, and develops writing ability. Emphasis is on communication. Films, interactive videos, tapes, readings, word processing and computer programs are used as support materials. Recommended for students with a year of college French, high school Regents French, or two strong years of high school French. Three class hours weekly. FREN 103 is the prerequisite for FREN 104. *(FL)*

FREN 111-112
Conversational French I-II (3)
Level I: no prerequisite. Level II presupposes basic knowledge of French. Elementary conversation course primarily for developing oral comprehension and expression. Includes reading, writing and structural considerations; evaluation is based largely on oral performance. Three class hours weekly.

GEOGRAPHIC INFORMATION SYSTEMS

Courses are offered every academic year unless otherwise noted.

GIS 101 Foundations of Geographic Information Science (3)
Fundamental concepts of spatial understanding and analysis for non-GIS majors. Introduces basic principles of GIS (Geographic Information Systems), RS (Remote Sensing), and GPS (Global Positioning System) and their applications in exploring and analyzing geospatial information. Students apply geographic information technologies to collect, manipulate, integrate, visualize, and analyze spatial data to generate information for solving complex problems. Hands-on lab training reinforces conceptual elements explained and discussed in lectures. Two lecture hours and two lab hours weekly. *(NS)*

GIS 110 Human Geography (3)
Human Geography is the study of the relationship between human and physical environments. The course examines the interrelationship between geography and culture and the nature of the impact of physical environment upon cultural development. *(SS)*

GIS 111 Introduction to GIS (3)
Introductory course presents basic GIS theories and concepts. Fundamentals explored include a brief introduction to basic cartographic principles, data types, map scales, coordinate systems and projections. Hands-on training includes manipulating, analyzing, and creating maps using an industry-standard GIS system. Two class hours, two lab hours weekly.
Fall semester only *(SS)*

GIS 121 Remote Sensing and Aerial Photogrammetry (3)
Overview of theory and principles of remote sensing and aerial photogrammetry. Students learn how to use remotely sensed images in resource exploration and base mapping. Introduces fundamentals of photogrammetry, basic image interpretation, and classification techniques. Two class hours, two lab hours weekly. Spring semester only

GIS 122 Spatial Modeling with Raster GIS (3)
Recommended background: GIS 111. Part of a sequence of GIS courses; provides hands-on training in modeling and analysis of spatial data using a raster GIS. Offers an in-depth understanding of raster GIS capabilities and helps students apply GIS technologies more effectively in spatial analysis and modeling. Two class hours, two lab hours weekly.
Spring semester only

GIS 205 Introduction to Vector GIS (3)
Recommended background: GIS 101 or GIS 111. Introduction to vector GIS, particularly ArcGIS. Functional and analytical capabilities of ArcGIS are introduced. Building on GIS 111 fundamentals, students learn data query, manipulation, integration, and analysis techniques in the vector domain. Two class hours, two lab hours weekly.
Fall semester only *(SS)*

GIS 220 Advanced GIS (3)
Prerequisite: GIS 205. Upper-level GIS course focuses on advanced topics including planning, management, raster-vector integration, and data quality issues. Students learn how to do customization, spatial modeling, advanced editing and database query in an ArcGIS environment. Combines components of geographic information technologies from previous semesters. Two class hours, two lab hours weekly.
Spring semester only

GIS 222 GIS Programming (3)
Recommended background: GIS 205. Introduces basic structure and capabilities of object-oriented programming in a GIS environment. Students learn how to automate GIS operations and customize user interface using programming language available in ArcGIS. Three class hours weekly.
Spring semester only

GIS 251 Special Topics (1)
Brief overview of geographic information technologies (GIT). Basic theories and principles of a particular aspect of GIT are discussed. Students gain hands-on experience in collecting, editing, and manipulating spatial or geographic data for viewing and analysis. Ten class hours, ten lab hours.
Offered upon indication of need

GIS 252 Special Topics (2)
Introduction to geographic information technologies (GIT). Basic theories and applications of GIS and GPS are discussed and students gain hands-on training in collecting, editing, manipulating, processing, and analyzing spatial or geographic data for various applications. Ten class hours, ten lab hours weekly for two weeks or in any other combination.
Offered upon indication of need

GIS 253 Special Topics (3)
Extensive experience in applying geographic information technologies (GIT) includes basic theories and applications with hands-on training in collecting, editing, manipulating, processing, and integrating spatial or geographic data from diverse sources for analysis and modeling. Ten class hours, ten lab hours weekly for three weeks or any other combination.
Offered upon indication of need

GIS 275 Internship in GIS (3)
Prerequisite: GIS 111 or 101 and GIS 121 or equivalent experience. Individual study and field experience applying GIS technology in a work place setting. Requires a minimum of six hours weekly at an internship site and a biweekly class meeting for a progress report. Requires a summary presentation and a journal of on-site activities.
Offered upon indication of need.

GEOGRAPHY

Courses are offered every academic year unless otherwise noted.

GEOG 051 The Middle East (1)
Seeks to explain the conflict between the Arab world and Israel. Examines the conflict's causes and the Palestinian refugee question. Also covers geographic significance of the region and oil politics. Three class hours weekly for five weeks.
Offered upon indication of need

GEOG 101 World Geography (3)
Introduction to modern geography examines selected social, economic, political and military aspects of Europe, the former Soviet Union, the Middle East and, if time permits, Asia or Latin America. Three class hours weekly.

GEOG 105 The United States (3)
Study of U.S. regions including Alaska. Discusses current trends in population growth, migration, urbanization and resource use. Three class hours weekly.Alternate academic years

GEOLOGY

Courses are offered every academic year unless otherwise noted.

GEOL 101 Earth Science (3)
Introduces selected topics in geology, meteorology and astronomy with emphasis on current environmental issues as related to these fields. An entry-level course in earth science. Two class hours and one two-hour lab weekly. *(NS) (SS)*

GEOL 110 Physical Geology (4)
Recommended background: GEOL 101 or high school earth science. General survey course in the basic principles of physical geology with in-depth coverage of selected topics such as streams, glaciers, ground water, weathering, soils, mass wasting, structural deformation, earthquakes and volcanoes. Laboratory exercises focus on rock and mineral identification, topographic and aerial map interpretation. Six field trips and a field project are designed to emphasize local geology. Three class hours and one three-hour lab or field trip weekly. *(NS)*

GEOL 111 Historical Geology (4)
Recommended background: GEOL 101 or high school earth science. General survey of the basic principles of historical geology, focusing on the sequence of events and geologic forces influencing the formation of the earth and the evolution of life forms. Topics include plate tectonics, sedimentation, stratigraphy, evolution, and paleontology. Laboratory exercises and field trips focus on regional and local strata, stratigraphy, geologic maps, fossil identification and collection. Three class hours and one three-hour lab or field trip weekly. *(NS)*

GEOL 130 Renewable and Alternative Energy Systems (3)
Prerequisite: GEOL 101 or high school Earth Science and MATH 099 or equivalent. Provides an overview of alternative energy sources and their ability to meet energy needs. The fundamental concepts of solar, wind, geothermal and other sustainable energy sources will be covered. The availability, economics and environmental impact of these alternative sources will be compared. Three class hours weekly.

HEALTH

Courses are offered every academic year unless otherwise noted.

HLTH 101 Alcoholism and Its Effects (1)
Lecture/discussion course presents a brief history of the use and abuse of alcohol in society, the effects of alcohol on the body, family, and career. Societal effects of alcohol use as well as treatment and control of alcoholism are discussed with respect to current trends.

HLTH 102 Drugs, Alcohol and Tobacco (1)
Provides information on the types of substances that lend themselves to abuse through habituation, tolerance or addiction. Discusses effects and consequences of drugs, alcohol and tobacco on physiological and behavioral aspects of one's life. Also includes the problems of drug use from over-the-counter remedies to illegal trafficking.

HLTH 103 Health (1)
A survey of topics including units in fitness, nutrition, drug, alcohol and tobacco education and responsible sexuality. Intended to inform students of health risks and behavior modifications that will achieve optimum wellness in all dimensions of their lives.

HLTH 104 Personal Health (3)
In-depth course in maintaining lifelong good health examines emotional health, drug education, family health, personal fitness, disease, consumer, and environmental health. Three class hours weekly.

HLTH 105 Wellness and Weight Management (1)
Techniques for assessing physical fitness and body composition. Develop an individualized program to attain and maintain a healthy weight, and improve fitness by applying principles of physical fitness and weight management.

HISTORY

Courses are offered every academic year unless otherwise noted.

HIST 101 Western Civilization I (3)
Topical approach to Western civilization addresses political, social, intellectual and economic issues; extends beyond past politics and chronologies to increase understanding of the historical record. Course focuses on European cultures from classical antiquity to 17th century; may extend further for in-depth historical treatment. Topics serve as case studies from which to evaluate the present. Three class hours weekly. *(WC)*

HIST 102 Western Civilization II (3)
Surveys major developments in European history from the 17th century to the present. Some topics may extend further for in-depth perspective. Focuses on the behavior of the many as well as the notable few. Topics serve as case studies from which to evaluate the present. Non-European peoples are of concern only as they and their histories impinge on the development of European culture. Three class hours weekly. *(WC)*

HIST 103 Pre-History and Early American History (3)
A survey of the basic narrative of the growth and development of America from native pre-history through the early Republic. The course will offer a general examination of Native America culturally, socially and politically. European and African

influences on American history (from exploration to colonization) will be considered. The early years of the United States (from the American Revolution to the cultural, social, religious, and political development of the Republic) with sensitivity to American unity and diversity will be examined. The emerging international role of the colonies/states will be considered. While the major focus of the course is on pre-nineteenth century history, the course will extend into the 19th century in order to provide insight into results of themes examined in the course of the study (historical continuity). Three class hours weekly. *(AH)*

HIST 104 19th Century American History (3)
A survey of the basic narrative of growth and development of the America in the 19th century from Jeffersonian America through U.S. Imperialism. Economic, political, religious and social developments (with sensitivity to American unity and diversity) will be central to the 19th century narrative. The course will also include military history (including the War of 1812, Mexican American War, the Civil War, and the Spanish American War). The course will also examine the developing relationship between the United States and the international community. While the major focus of the course is on nineteenth century history, the course will extend into the 18th century in order to provide insight into root of themes examined in the course of the study (historical continuity). Three class hours weekly. *(AH)*

HIST 105 America in the 20th and 21st Centuries (3)
A survey of the basic narrative of the growth and development of modern America. With sensitivity to issues of unity and diversity, the course will examine the cultural, social, economic, and political developments of America in the 20th and 21st centuries. Special emphasis will be placed on the expanded role America has played on the international stage. While the major focus of the course is on the 20th and 21st centuries century history, the course will extend into the 19th century in order to provide insight into the root of themes examined in the course of the study (historical continuity). Three class hours weekly. *(AH)*

HIST 111 World Civilizations I (3)
Survey of cultural interactions between civilizations; inquiry into ideas, events, and people as forces for contact, change, and continuity in human issues. Exploring China, India, Africa, the Middle East, and the Americas, ideas may include imperialist expansion, industrial transformation, revolts, wars, historiography of the other, slavery and race, religion and society, economy and ecology, decolonization, nationalism, globalism. Emphasizes relationships of events and global interaction of movements and ideas. Three class hours weekly. *(OW)*

HIST 112 World Civilizations II (3)
Survey of cultural interactions between civilizations; inquiry into ideas, events, and people as forces for contact, change, and continuity in human issues. Provides a basis for comparing times, places, communities, and experiences. Focus is 18th century to present. Three class hours weekly. *(OW)*

HIST 210 American Military History (3)
Recommended background: HIST 101-112. Traces the development of American military thought as well as evolution of military technology and weaponry, focusing on wars fought from the Revolution to the Vietnam conflict. Discussion of the current status of military technology and the future of warfare. Three class hours weekly.
Offered upon indication of need

HIST 215 World War II (3)
Recommended background HIST 101-112.
This course examines the political relationships and the military conflicts among nations in the period 1910-1945. The causes and conduct of World War I and the development of nationalistic rivalries preceding 1939 are included in introductory material, and the course concludes with a description of the establishment of the post war system of international alliances. Three class hours weekly.

HIST 217 African American History (3)
Recommended background HIST 101-112. This course is an overview of African American history emphasizing the challenges and the contributions of African American individuals and communities. This course investigates the intellectual, social, economic, and political history of African Americans in the United States. Three class hours weekly.
Offered upon indication of need

HIST 222 The History of New York State (3)
Recommended background HIST 101-112. A survey of the history of New York from pre-colonial times to the present. Topics include the Native New Yorkers (pre-colonial, colonial, and New York State), Colonial New Netherlands and New York, New York in the French and Indian War and the American Revolution, the Erie Canal, New York's reforms (abolition, women's rights, religious, etc.), New York in the Civil War, immigration and migration, and the emergence of New York State in the modern world. Three hours of class per week.

HIST 224 Women in American History (3)
Recommended background HIST 101-112. A study of the historical experience of women in America from the colonial period through modern times. Topics include the examination of women and work, education, legal and political status, religious movements, and social organizations, with attention to issues of age, class, race, power, sexuality, and regionalization as significant variables in women's experience. Three class hours weekly.

HIST 226 Civil War and Reconstruction (3)
Recommended background HIST 101-112. This course covers the social, economic, and political causes of the Civil War, an in-depth view of its military execution, a geographic study of the war, some of the political and military figures involved, and the Reconstruction of the parts of the United States affected by the war following its conclusion. In order to enhance the students' ability to reason historically, the course will include a variety of political and cultural perspectives and a substantial amount of readings from primary historical resources. Three class hours weekly.

HIST 239 Selected Topics (3)
This course is devoted to a particular historical event or personage, a particular theme or related themes in history, or the history of a particular area of the world. Note: This course may be used as a social sciences or liberal arts elective, but cannot be taken in lieu of a history requirement without permission of the division chair. Three class hours weekly.

HONORS

Courses are offered every academic year unless otherwise noted.

HON 101 Introduction to Critical Thinking (1)
This course serves as an introduction to honors study, providing a basic orientation to critical thinking. It helps students in the honors option develop their critical thinking skills by challenging their assumptions and encouraging them to analyze their decisions. Course content includes reading and writing about contemporary issues, developing a foundation which the students build upon as they work towards their senior capstone project for honors study. (Pre-req or concurrent enrollment in Eng 101)

HON 201-202
Honors Seminar (3 / semester)
Discussion-oriented class gives students the opportunity to think across disciplinary lines and engage in discussion and writing about significant questions in the field of expertise of the instructor. Since the seminar is defined by method and structure rather than by content, actual content can vary. The course is an opportunity for close faculty/student mentoring. Open to sophomore Honors Study students; others with instructor's permission. Three class hours weekly.

HUMANITIES

HE 239 Special Topics in the Disciplines (3)
Presents a topic or theme developed by faculty in different disciplines. Students approach the topic using various tools, methods, and skills from more than one disciplinary perspective. Course fosters appreciation of varying and often differing approaches to the same issue. Students enlarge their own perspectives; learn to think in more creative, original, and unconventional ways; practice synthesizing and integrating widely varying materials; and become more sensitive to disciplinary, political, and other biases. Prerequisites to be determined by individual instructors and divisions. Offered upon indication of need

INTERDISCIPLINARY STUDIES

INT 239 Interdisciplinary Study in Native American Culture and Education (3)
This is an Interdisciplinary study course which meets the SUNY Gen Ed guidelines for Other World Civilizations. The course includes a 10-week on-line component and culminates in a week-long, on-site service learning experience at the Seminole Tribe of Florida school in Big Cypress, Florida. Students will explore past and present perspectives of the Seminole culture to facilitate intercultural exploration and understanding. Service learning opportunities include but are not limited to in-class tutoring of children (pre-K through 8th grade), implementation of a week-long art program, and special programming for the library, computer lab, reading rooms, and physical education classes. May be used as a Liberal Arts or free elective or to satisfy Honors study requirements. Fall only with one week travel during January Intersession *(OW)*

ITALIAN

Courses are offered every academic year unless otherwise noted.

ITAL 111–112
Italian Conversation Level I-II (3 / semester)
For students who wish to learn, speak and understand Italian, but who are not primarily interested in reading or writing the language. Emphasis on correct pronunciation, idiomatic expressions, basic vocabulary and minimal grammar and structure necessary for speaking. Three class hours weekly.
Offered upon indication of need

ITAL 165 Italian Language, Art and Culture (3)
Two-week study/travel course in Italy. Offers a unique opportunity to explore Italian life and culture, past and present. Lectures in English on various aspects of Italian culture, art-walks covering Roman, Medieval, Renaissance, Baroque art and architecture, visits to noted museums and churches, and Italian conversation meetings. Cities visited are Rome, Florence, Venice, Assisi, Pompei, Amalfi Coast and Sorrento. No knowledge of Italian is required. Offered upon indication of need

LIBRARY

Courses are offered every academic year unless otherwise noted.

LIB 102 Information Research Skills (1)
Recommended for all students, a hands-on foundation for information literacy and research skills, using traditional library resources and computer applications. Topics include understanding the research process; accessing sources through the online catalog, electronic databases, and the World Wide Web; evaluating sources; using information ethically and legally to fill an information need. Especially appropriate for students beginning college studies; also useful for students who want to be more successful in research projects for other college courses. Class meets twice a week for five weeks. Every academic year

MATHEMATICS

Courses are offered every academic year unless otherwise noted.

MATH 070 Basic Algebra (No Credit)
See Math Flowchart, page 123. Provides the basic mathematical skills necessary to enter MATH 099. Topics include operations of whole numbers and signed numbers, fractions and decimals, as well as ratio, proportions, and percents. Introduces equations, geometric applications, the laws of exponents, operations with polynomials, and basic factoring. Three class hours weekly.

MATH 099 Elementary Algebra (No Credit)
See Math Flowchart, page 123. Topics include the algebra of whole numbers, integers, and rational numbers; binary operations involving polynomials; introduction of the laws of exponents; equation-solving techniques for first-degree equations; solving simultaneous linear equations by graphing, substitution and addition methods; word problems. No previous knowledge of algebra is assumed. Three class hours weekly.

MATH 102 Intermediate Algebra (3)
Prerequisite: MATH 099 or pass placement test for MATH 099. Assumes knowledge of elementary algebra. Reviews basic algebraic concepts, then progresses to rational exponents; solution of linear, rational, quadratic and radical equations; introduction of the function concept; factoring polynomials, synthetic division, and the algebra of radicals. Includes applications with word problems. Three class hours weekly. *(M)*

MATH 104 College Algebra and Trigonometry (3)
Prerequisite: MATH 102 or equivalent. (See Math Flowchart, page 123.) Continuation of MATH 102 introduces the basics of trigonometry and reviews basic properties of the complex number system. The concept of function is applied to algebraic, rational, exponential, logarithmic and trigonometric functions. Emphasis on applications of trigonometry to right and oblique triangles and vectors. A scientific calculator is required. Three class hours weekly. *(M)*

MATH 106 Pre-Calculus (3)
Prerequisite: MATH 104 or equivalent. (See Math Flowchart, page 123.) Completes the study of algebraic and trigonometric skills necessary for successful study of calculus. Trigonometric functions and identities are applied to analytic geometry. Systems of equations and inequalities are solved using algebraic, graphical and matrix/determinant methods. Theory of equations including remainder, factor and De Moivre's theorem are used to study and help in graphing of equations. Introduces series and sequences (arithmetic and geometric), the binomial theorem, and mathematical induction. A scientific calculator is required. Three class hours weekly. *(M)*

MATH 108 Calculus I (4)
Prerequisite: MATH 106 or equivalent. (See Math Flowchart, page 123.) Studies functions; properties of limits and continuity; derivatives with applications to related rates, maximum/minimum and curve sketching; the chain rule; differentials; the mean value theorem; Newton's Method; integration with applications to plane areas, volumes of solids of revolution by disk, shell, and cross sections. Differentiation and integration of exponential and logarithmic functions are applied to growth and decay. Four class hours weekly. *(M)*

MATH 112 Contemporary Mathematics (3)
Prerequisite: MATH 099 or equivalent. (See Math Flowchart, page 123.) Prepares students for an understanding of arithmetic, algebra, geometry, data analysis, and quantitative reasoning. Students will show competence in these skill areas with additional support using the computer software including the resources available on the internet. Three class hours weekly. *(M)*

MATH 114
Applied Mathematics for Technologists (3)
Prerequisite: MATH 102 or pass placement test for MATH 104. Intended for Mechanical Technology and Electrical Technology students, but open to any student. With emphasis on applications, focuses on various topics of algebra and trigonometry including mathematics misconceptions, linear/quadratic equations and functions, common and natural logarithms, properties of logarithms, trigonometric functions, right angle trigonometry, and the law of sines and cosines. Applications include calculator limitations, proportions, unit analysis, projectile motion, frequency response of electrical systems, vector and component analysis, and coordinate analysis of complex shapes. A scientific calculator is required. Three class hours weekly.

MATH 115
Concepts of Elementary Mathematics I (3)
Prerequisite: MATH 099 or pass placement test for MATH 099. An experiential investigation of mathematical concepts currently taught in elementary school such as problem solving, sets and relations, numeration systems, whole numbers, integers, rational numbers, real numbers, and number theory. Students will understand and demonstrate the mathematical curriculum recommended by New York State and learn various ways to communicate comprehension to the elementary student. *(M)*

MATH 116
Concepts of Elementary Mathematics II (3)
Prerequisite: MATH 099 or pass placement test for MATH 099. An experiential investigation of mathematical concepts currently taught in elementary school, such as probability, statistics, geometry, and the metric system. Students will understand and demonstrate the mathematical curriculum recommended by New York State and learn various ways to communicate comprehension to the elementary student. *(M)*

MATH 201 Calculus II (4)
Prerequisite: MATH 108 or equivalent. (See Math Flowchart, page 123.) Continuation of Calculus I. Topics include applications of integration in arc length and surface area, work, fluid pressure and fluid force, moments and centroids, integration techniques, L'Hopital's Rule and improper integrals. Also covers sequences, infinite series, Taylor Series, interval of convergence, conic sections, parametric equations, polar equations and their graphs. Four class hours weekly. *(M)*

MATH 202 Calculus III (4)
Prerequisite: MATH 201 or equivalent. (See Math Flowchart, page 123.) Multivariable calculus including vectors in planes and space; lines, planes and surfaces in space; rectangular, cylindrical and spherical coordinates; vector-valued functions, motion, arc length and curvature; functions of several variables, partial derivatives, chain rules, directional derivatives and gradients, tangent planes; Lagrange multipliers. Also multiple integration applied to volume center of mass and surface area; vector analysis including vector fields, line integrals, Green's Theorem, parametric surfaces, surface integrals, divergence, curl and Stokes' Theorem. Four class hours weekly. *(M)*

MATH 203 Linear Algebra (3)
Prerequisite: MATH 106 or equivalent. (See Math Flowchart, page 123.) Introduces linear algebra with emphasis on interpretation and the development of computational techniques. Topics include systems of equations; matrices are utilized for the interpretation of vector spaces, subspaces, independence bases, dimension, inner product, outerproduct, orthogonal and orthonormal sets. Also the transformation of matrices, matrix operations, inverses, conditions for invertibility, determinants and their properties. The characteristics equation and its eigenvalue are used for problem solving and the development of linear transformations. Three class hours weekly. *(M)*

MATH 204 Differential Equations and Series (4)
Prerequisite: MATH 201. (See Math Flowchart, page 123.) Techniques for solving differential equations of first and higher order; focus on linear differential equations. Methods include separation of variables, undetermined coefficients, variation of parameters, D-operators, Laplace transforms and infinite series. Applications include formulation, solution and interpretation of initial and boundary value problems in physics, electricity and engineering.
Four class hours weekly. *(M)*

MATH 210 Data Structures (3)
Prerequisite: CS 222. Introduces the student to most commonly used data structures and their implementation. Algorithms and operations show the use of major data structures in computer science. Includes stacks, symbol tables, queues, sets, search trees, strings and graphs. Study provides a basis for developing new algorithms. Three class hours weekly. *(M)*

MATH 212 Discrete Mathematics (3)
Prerequisite: MATH 106 or equivalent. Introduction includes propositional and predicate logic, sets, functions, matrix algebra, number theory, algorithms, valid arguments, direct and indirect proofs, proof by contradiction, mathematical induction, permutations, combinations and other counting techniques, and discrete probability. *(M)*

MATH 214 Statistics (3)
Prerequisite: MATH 104 and higher, or MATH 102 with a minimum final grade of C+. Topics range from data collection, descriptive statistics and linear regression models to inferential statistics. Includes probability, counting principles, and binomial probability distribution. Normal probability distribution and student's t-distribution are discussed in single and two-populations applications. Statistical inference (confidence intervals and hypothesis testing) in sociology, psychology, and business/industry are stressed. Additional topics may include Chi-square goodness of fit test, tests for independence, and testing the significance of the linear regression model. Three class hours weekly. *(M)*

MECHANICAL AND MANUFACTURING TECHNOLOGY

Courses are offered every academic year unless otherwise noted.

MMT 101 Machine Tools 1 (3)
This course introduces the student to a hands-on study of basic theory and laboratory experiences for lathes, milling, drilling, grinding, bench work, and bulk manufacturing operations. Study of cutting speeds and feeds, surface finishes, as well as machine capabilities is included. An introduction to welding, materials, and welding processes will be included. Hands on skills with basic part layout, measurement, inspection, and technical drawing reading skills used by machinists will be emphasized. Two class hours, two lab hours weekly.

MMT 102 Machine Tools 2 (4)
Pre-requisite: MMT 101, ENGR 103, and ENGR 126 or ENGR 126 Co-registered, or permission of the instructor. This course is a continuation of MMT 101 introduces the student to a hands-on study of basic theory and laboratory experiences with an introduction to Computer Numerical Control (CNC) machining concepts and techniques. Topics include manufacturing safety, machining calculations, tool selection, heat treating, metal finishes, and material composition and testing. This course includes an introduction to the standard M and G codes used with basic programming and operations of computer numerical control CNC lathes and mills. Application of measurement, inspection, tolerance analysis, and technical drawing reading skills used by machinist will be emphasized. Two class hour and four hours laboratory experience

MMT 122 Mechanical/Industrial CAD (4)
Pre-requisite: ENGR 126 or equivalent. Focuses on mechanical design principles and practices in various specialized areas of mechanical/industrial drafting. Topics include bearings and shafts, gearing and cams, threads, fasteners and springs. Introduces industrial dimensioning and tolerancing principles is based on ANSI Y14.5M standards. Detailed representation is accomplished using two and three dimensional computer aided design techniques. Two class hours, four lab hours weekly.

MMT 141 Fundamentals of Plastics Technology (4)
Introduces students to all discipline of plastics converting (extrusion, EBM, ISBM, IM, Vacuum forming, compression molding). Covers the equipment related to each discipline (primary and auxiliary), and the materials used along with their properties and applications. Students learn about what drives the need for this industry and product life cycles. Visits to industry sites are part of the curriculum. Three class hours and three lab hours weekly. Pre-requisite: Completion of concurrent enrollment in **MMT101**

MMT 208 Advanced CAD/CAM (4)
Prerequisite: ENGR 103, MMT 101, Pre or Co requisite: MMT 102, MMT 221. This course is a continuation of MMT 102. Designed to prepare students with the necessary skills to program computer numerical control (CNC) machines using Computer Aided Design (CAD) combined with Computer Aided Manufacturing (CAM). Lectures address such topics as drawing interpretation, program formats, input media, setup, using fixtures, writing M and G code programs, sub-routines, looping and loop counters, creating canned cycles, and advanced tool changing using CNC controllers, while the laboratory sessions give the students practice in programming learned techniques. This course will utilize 3D solid modeling and 2D CAD skills to produce complex geometry. Mold design will be explored in a capstone project based experience. Two class hours, two lab hours weekly.

MMT 220 Machine Design (4)
Prerequisite ENGR 228.This course focuses on fundamental concepts and problem solving techniques required by industry. Using case studies and actual industrial design problems, students develop the capability to design and layout engineered products and systems, and prepare working drawing and specifications necessary for production. Design and layout problem solving, dimensioning practices, tolerancing and size dimensioning and tolerancing (SD&T) are emphasized. Geometric Dimensioning and Tolerancing (GD&T) with form features, orientation, runout, and locational tolerancing will be incorporated in this course. Computer-aided design with emphasis on component specification preparation and advanced assembly modeling. Two class hours, four lab hours weekly.

MMT 221 Tool and Die Design (4)
Prerequisite: ENGR 103,126, 228. Concurrent enrollment in MATH 104. Using case studies and industrial design problems, students learn to improve manufacturing processes through tool design techniques. Includes problem solving techniques, process analysis, designing fixtures and jigs, introduction to punch and die sets, quality improvements in manufacturing, and introduction to geometric dimensioning and tolerancing. Computer-aided design will be used in the laboratory. Two class hours/four lab hours weekly

MMT 241 Plastics Technology: Injection Molding (4)
Instructs students in the set ups required for the entire injection molding process. Covers the associated tooling and the design / build considerations. The purpose, function and hand-on operation of primary and auxiliary equipment is included. Material properties, process troubleshooting, automation, quality control, and workflow methodology are all covered as they relate to injection molding. Three class hour and three lab hours weekly.Pre-requisite: MMT141.

MMT 242 Plastics Technology: Blow Molding (4)
Instructs students in the set ups required for the entire blow molding process. Covers the associated tooling and the design / build considerations. The purpose, function and hand-on operation of primary and auxiliary equipment is included. Material properties, process troubleshooting, automation, quality control, and workflow methodology are all covered as they relate to injection molding. Three class hour and three lab hours weekly. Pre-requisite: MMT141

MUSIC

Courses are offered every academic year unless otherwise noted.

MUSI 100 College Chorus (1)
Open to all students. Provides an opportunity for students to enjoy and develop their singing voices. Activities include concerts for the College and community. Three lab hours weekly. May be repeated for a maximum of four credit hours. *(AR)*

MUSI 101 Music Appreciation (3)
Studies the art of music listening including the basic elements of music, a variety of musical styles and performing media. Recordings and audio visual materials are supplemented with live music. Three class hours weekly.
(AR)

MUSI 102 Jazz (3)
History and appreciation of jazz for all musical experience levels. Includes discrimination between jazz and related styles; other listening skills include analysis of aspects of form, rhythm, harmony and melody. Three class hours weekly. *(AR)*

MUSI 104 Music Essentials (3)
Presents music fundamentals to students and prospective teachers in pre-K, elementary, special, or physical education programs. Study at the piano keyboard introduces students to reading and writing music notation. Three class hours weekly. *(AR)*

MUSI 105 Music Theory (3)
This course is designed for all students interested in the study of music theory concepts. Students will develop skills in music theory and analysis, music composition, arranging and aural cognition. Three class hours weekly.

MUSI 111 Rock (3)
History and appreciation of rock music for students of all musical experience levels. Topics include rock artists, form, rhythm, harmony and melody; also discriminating between rock and related styles. Three class hours weekly. *(AR)*

MUSI 112 Music in Performance (3)
Two-week course in music appreciation through live performances utilizes a trip to New York City. Detailed study and analysis of works precedes concert attendance. Concerts may include a Broadway musical, choral music, an opera or ballet, the symphony and/or a jazz performance.
Offered upon indication of need *(AR)*

MUSI 114 Guitar Ensemble (1)
Guitar Ensemble is a small ensemble course, in which students will rehearse and perform music from standard guitar ensemble repertoire. A department audition is required. One class hour weekly. May be repeated for a maximum of four credit hours.

MUSI 115 Jazz Ensemble (3)
Course explores the repertoire for the jazz ensemble which includes: swing, bebop, hard bop, cool, avant-garde, and fusion jazz styles. The jazz ensemble is for any level of improviser, however an audition is required for placement.

MUSI 116 Small Group Ensemble (1)
This is a performance-oriented course dealing with all aspects of jazz/commercial small group performance. Students will rehearse three time weekly and have the opportunity to perform on- and off-campus throughout the semester.

MUSI 117 Rock Ensemble (1 credit)
Rock Ensemble is a small ensemble course, in which students will rehearse and perform music from the rock genre. A department audition is required. One class hour weekly. May be repeated for a maximum of four credits. *(AR)*

MUSI 118 Jazz Combo (1)
Jazz combo is a "hands on" ensemble course, in which students will rehearse and perform music from the jazz genre. A department audition is required. One class hour weekly. May be repeated for a maximum of four credit hours.

MUSI 119 R & B Ensemble (1)
R & B Ensemble is a "hands on" ensemble course, in which students will rehearse and perform music from the rhythm and blues genre. A department audition is required. One class hour weekly. May be repeated for a maximum of four credit hours.

MUSI 120 World Rhythm Ensemble (1)
World Rhythm Ensemble is a "hands on" ensemble course, in which students will rehearse and perform percussion music from world cultures. A department audition is required. One class hour weekly. May be repeated for a maximum of four credit hours. *(AR)*

MUSI 121 World Music (3)
Introduction to World Music will explore the musical traditions of selective African, Asian, Caribbean, Eastern European and Latin American cultures. Three class hours weekly. *(AR) (OW)*

MUSI 140 A Cappella (1)
Offers students the opportunity to rehearse and perform vocal music without accompaniment. Activities include performances on and off campus. One lab hour weekly.

MUSI 141 Vocal Jazz Ensemble (1)
Offers students the opportunity to rehearse and perform music from the jazz repertoire. Activities include performances on and off campus. One lab hour weekly.

MUSI 152 Class Voice (2)
Designed for students of any singing ability who desire to improve their singing voice. Students learn how to produce a good singing tone and sing effectively. Three lab hours weekly.

MUSI 154 Piano I (3)
For beginning piano players. Students proceed at their individual pace learning basic theoretical concepts as applied to the keyboard. Students learn how to play piano melodies and perform written works. Correct piano technique is taught as well as proper phrasing and expressiveness in playing. Three class hours and one lab hour weekly. *(AR)*

MUSI 156 Piano II (3)
Recommended background: MUSI 104, 154, private piano study or equivalent. Students move at an individual pace and build on previous playing skills. Solutions for technical problems are given. Three class hours and one lab hour weekly.
Offered upon indication of need

MUSI 158 Guitar (3)
Students of any playing level may enroll in this guitar course. Beginning students learn at their own pace to read music, chord notation, and to play chords, scales and fingering. Three class hours and one lab hour weekly. *(AR)*

MUSI 170 Music Preparation for Audio Professionals (3)
Prerequisite: TELC 104. Addresses the musical needs of both aspiring audio professionals and general students. Students have the opportunity to become comfortable with musical as well as technical language. Three class hours weekly.

MUSI 200 Applied Music Lessons (2)
Prerequisite: Department audition required. This course enables students to study privately with an instructor with the same instrumental or vocal specialization, depending on availability of faculty. *(AR)*

MUSI 205 Music Composition (3)
Prerequisites: MUSI 105, MUSI 154. In this course, intermediate concepts and materials of music composition are covered. The student will have assigned projects in motive and phrase development, periodic construction, phrase shape, and part writing. The student will complete short pieces for keyboard and small instrumental/vocal combinations.

MUSI 206 Digital Music Notation (3)
Digital Music Notation is a course that covers music notation topics utilizing music software.
Three course hours weekly.

MUSI 207 Digital Music Arranging (3)
Digital Music Arranging is a course that covers music technology topics in music sequencing and programming. Three course house weekly.

MUSI 210 Special Topics in Music (1-3)
Course is devoted to a specific topic or area of expertise in music. Students will have an opportunity to experience an area of music study not fully covered in other courses.

NURSING

Courses are offered every academic year unless otherwise noted.

NURS 100 Nursing Success Strategies (1)
Concurrent enrollment: NURS 101. Provides matriculated nursing students with skills to develop and implement a successful plan of study in the nursing curriculum. Emphasis is placed on awareness of learning style, goal setting, time management, student nurse stress management, critical thinking skills, study techniques, NCLEX (National Council Licensure Exam) test-taking techniques and use of college academic resources. This course focuses on the application of practical strategies to enhance the student's ability to survive and thrive within the academic rigors of a nursing program. One class hour weekly for fifteen weeks.

NURS 101 Fundamentals of Patient Care (8)
Concurrent enrollment in or completion of BIOL 203. Adult, child, and infant CPR certification required prior to clinical. This foundational course introduces students to the practice of professional nursing as a therapeutic process of caring, knowledge, judgment and skill. The core concepts of individual, professional nursing, and health care are an organizing framework. Emphasis is placed on the concepts of health, wellness and illness, professional behaviors, accountability, assessment, caring interventions for basic human needs, clinical decision making, safety, communication, evidence-based practice, legal issues, stress and coping, culture, and health care systems. Students will integrate theory into practice by caring for adult and older patient's basic needs in long term and acute care settings. The student is expected to demonstrate competency of selected basic nursing skills in the Nursing Lab. Four class hours and twelve clinical laboratory hours weekly.

NURS 102 Nursing in Physical / Mental Health I (8)
Prerequisite: NURS 101 and BIOL 203. Concurrent enrollment in or completion of BIOL 204. Adult, child and infant CPR certification. This course builds upon the skills, abilities and knowledge developed in Nursing 101. The core concepts of individual, professional nursing, and health care are an organizing framework. Emphasis is placed on the concepts of elimination, metabolism, cellular regulation, oxygenation, perfusion, inflammation, mobility, teaching and learning, and clinical decision making. The student will integrate theory into practice by caring for adult and older adult patients with common medical-surgical health problems in acute care settings. The student is expected to demonstrate competency of selected intermediate nursing skills in the Nursing Lab. Four class hours and twelve clinical laboratory hours weekly.

NURS 104 Clinical Enrichment Practicum (1)
This nursing elective provides 45 hours of clinical enrichment in an acute care hospital setting under the supervision of an expert nursing clinical instructor. The student will build upon previously mastered principles of interpersonal, technical and cognitive skills related to individualized client needs. Clinical learning activities will be provided to further develop the student's ability to think critically, to reason and form judgments, and to assess, analyze and resolve client-centered health problems.

NURS 165 Health Care in Great Britain: Historical, Contemporary, and Future Perspectives (3)
This international study-travel course is offered to health care providers, administrators, and others with an interest in exploring health care issues in Great Britain. The intent is to enrich and broaden the historic and cultural insights of the health care provider through immersion in and study of an international health care system. Participants will meet and exchange ideas with their British peers and compare and contrast variations in past, current, and future trends between the National Health Service and United States health care system. This course will consist of an intensive two week series of tours, lectures, and discussions including well-known London sites associated with past health care issues. Historic and cultural influences will be explored during visits to the Roman baths at Bath, the original Old St. Thomas' Operating Theatre, Stonehenge, the Wellcome Collection, the Nurse's Chapel at Westminster Abbey, the Florence Nightingale Museum, the Gordon Museum, and other sites of interest. Intersession only.

NURS 203 Trends in Nursing (1)
Concurring Requisite: NURS 216, NURS 217. This course provides students with an overview of contemporary issues and trends and their impact on the nursing profession. The role of the associate degree nurse and the transition from student to member of the profession will be explored. Focuses on the core concepts of professional nursing and health care. One class hour weekly for fifteen weeks.

NURS 207 Pharmacology (3)
This course provides essential information to promote the knowledge and skills of safe drug therapy. Basic pharmacologic concepts and application of the nursing process in drug therapy establish the framework of this course. The content is organized into topics by therapeutic drug classifications and their effects on particular body systems. The focus on rationales for nursing actions provides a strong knowledge base and scientific foundation for safe and effective drug therapy in clinical nursing practice. Three class hours weekly for fifteen weeks.

NURS 211 Health Assessment (3)
Prerequisite: NURS 101. This course provides the knowledge and skills necessary to collect a comprehensive health history and perform a physical assessment of the integumentary, respiratory, cardiovascular, gastrointestinal, neurological, musculoskeletal, lymphatic, and reproductive systems, and the eyes, ears, nose, throat, head and neck regions. Holistic client assessment is emphasized with nutritional and cultural nursing considerations. The lab component will provide practice and evaluation to ensure basic level competency. Two class hours and two lab hours weekly. Offered upon indication of need.

NURS 212 Health Assessment I (1.5)
Prerequisite: NURS 101. This course provides the knowledge and skills necessary to collect a comprehensive health history and perform a physical assessment of the integumentary, respiratory, cardiovascular and gastrointestinal systems. Holistic client assessment is emphasized with nutritional and cultural nursing considerations. Students will independently practice assessment skills and provide documentation for each body system. One and one-half class hours weekly or ninety minute class weekly.

NURS 213 Health Assessment II (1.5)
Prerequisites: NURS 102, NURS 212. This course will build upon knowledge and skills acquired in Health Assessment I. Comprehensive health history and physical assessment techniques of the neurological, musculoskeletal, lymphatic, reproductive, eyes, ears, nose, throat, head and neck regions and systems will be provided. Holistic client assessment is continued. Students will independently practice assessment skills and provide documentation for each body system. One and one-half class hours weekly or ninety minute class weekly.

NURS 214 Family / Community Nursing I (4)
Prerequisites: NURS 101, NURS 102, BIOL 203, BIOL 204. Adult, child and infant CPR certification. This course builds upon the skills, abilities and knowledge developed in Nursing 101 and Nursing 102. The core concepts of individual, professional nursing, and health care are an organizing framework. Emphasis is placed on the concepts of sexuality, reproduction, growth and development, family, infection, health care systems, health policy, and clinical decision making.

The student will integrate theory into practice by caring for patients in pediatric, obstetric, home care, and community settings. The student is expected to demonstrate competency of selected intermediate nursing skills in the Nursing Lab. Four class hours and twelve clinical laboratory hours weekly for seven weeks.

NURS 215 Nursing in Physical / Mental Health II (4)
Prerequisites: NURS 101, NURS 102, BIOL 203, BIOL 204. Adult, child and infant CPR certification. This course builds upon the skills, abilities, and knowledge developed in Nursing 101 and Nursing 102. The core concepts of individual, professional nursing, and health care are an organizing framework. Emphasis is placed on the concepts of mental health, stress and coping, perfusion, oxygenation, acid-base balance, metabolism, collaboration, and clinical decision making. The student will integrate theory into practice by caring for adult and older adult patients in acute care and mental health settings. The student is expected to demonstrate competency of selected intermediate nursing skills in the Nursing Lab. Four class hours and twelve clinical laboratory hours for seven weeks.

NURS 216 Family / Community Nursing II (4)
Prerequisites: NURS 101, NURS 102, NURS 214, NURS 215, BIOL 203, BIOL 204. Adult, child and infant CPR certification. This course builds upon the skills, abilities, and knowledge developed in Nursing 101, Nursing 102, Nursing 214 and Nursing 215. The core concepts of individual, professional nursing, and health care are an organizing framework. Emphasis is placed on the concepts of metabolism, intracranial regulation, cellular regulation, perfusion, tissue integrity, mobility, inflammation, and collaboration. The role of nurse as manager of care is further developed with increased autonomy and an emphasis of the development of interdisciplinary collaboration skills. The student will integrate theory into practice by caring for patients in pediatric, obstetric, home care, and community settings. The student is expected to demonstrate competency of selected advanced nursing skills in the Nursing Lab. Four class hours and twelve clinical laboratory hours weekly for seven weeks.

NURS 217 Nursing in Physical / Mental Health III (4)
Prerequisites: NURS 101, NURS 102, NURS 214, NURS 215, BIOL 203, BIOL 204. Adult, child and infant CPR certification. This course builds upon the skills, abilities, and knowledge developed in Nursing 101, 102, 214, and 215. The core concepts of individual, professional nursing, and health care are an organizing framework. Emphasis is placed on the concepts of fluid and electrolyte balance, metabolism, intracranial regulation, cellular regulation, immunity, and mobility. The role of the nurse as manager of care is further developed with increased autonomy and an emphasis on the development of leadership skills. The student will integrate theory into practice by caring for adult and older adult patients in acute care settings and the clinical preceptorship. The student is expected to demonstrate competency of selected advanced nursing skills in the Nursing Lab Four class hours and twelve clinical laboratory hours weekly for seven weeks.

NURS 220 The Art of Nursing: Alternative Therapies (1)
This course considers the process of providing physical, mental, emotional, and spiritual care to others by focusing on alternative therapies that promote the self-healing capabilities within individuals. Nursing as an art is a caring profession that seeks to assist clients toward favorable health changes. Alternative therapies and their relation to the concept of healing, provide the framework for this course.
Offered upon indication of need.

PHILOSOPHY

Courses are offered every academic year unless otherwise noted.

PHIL 101 Logic (3)
Prerequisite or concurrent enrollment in ENGL 101. Introduces informal and formal logic, emphasizing methods of interpreting and evaluating arguments to develop critical thinking and reasoning skills. Three class hours weekly.

PHIL 105 Ethics (3)
Prerequisite or concurrent enrollment in ENGL 101. Examines alternative theories of the nature of moral value in relation to basic issues concerning rights, justice, freedom and happiness. Course objective is to develop the ability to make well-reasoned judgments about value questions facing the individual and society. Three class hours weekly.

PHIL 201 Introduction to Philosophy (3)
Prerequisite or concurrent enrollment in ENGL 101. General introduction to philosophy surveys fundamental problems and perspectives representing a range of philosophical fields, periods, and authors. Encourages questioning and reasoning on philosophical issues. Three class hours weekly

PHIL 203 World Religions (3)
Prerequisite or concurrent enrollment in ENGL 101. Studies the beliefs and religious philosophies of major Eastern and Western religions including Hinduism, Buddhism, Judaism, Christianity and Islam. Three class hours weekly. *(OW)*

PHIL 214 Special Topics in Philosophy (3)
This course focuses on selected issues or positions within the philosophical world. The format includes reading lecture and discussion. Topics are chosen from different areas within Philosophy (such as Epistemology or Ethics) to specific philosophers (such as Plato and Aristotle, the Rationalists vs. The Empiricists, the Existentialists). Topics are chosen to allow an in-depth exploration of the subject matter. Three class hours weekly.

PHYSICAL EDUCATION

Courses are offered every academic year unless otherwise noted.

ACTIVITY COURSES

PE 109 Judo (1)
Designed to provide instruction at all levels of Kodokan Judo. Students will be taught at their own level and pace and may concentrate in one area or pursue several areas of interest. Beginners will learn the basics of Olympic Judo, self-defense and KATA forms. Advanced students will have the opportunity to test their skills and develop or refine new skills. Instruction will be individualized to meet the needs and abilities of each student. Recommended for students considering a career in law enforcement, corrections, military. Three class hours weekly.

PE 110 Karate (1)
Basic techniques of Beikokujin Soo Do karate and basic tenets, ethics of the martial arts. Students are taught the fundamental kicks, blocks, strikes, vocabulary, self-defense techniques and katas necessary to attain the rank of gold belt. Additional techniques for advanced students. May be repeated. Three class hours weekly.

PE 128 Basketball (1)
Basic instruction in the skills and fundamentals of basketball. Students learn rules and officiate games within the class setting. Three class hours weekly.

PE 129 Basketball Practicum* (1)
Prerequisite: PE 128. Opportunity to improve basketball skills in a competitive setting. Three class hours weekly. * May not be counted for graduation credit under certain circumstances. See physical education requirements as stipulated for each degree, or contact division chair.

PE 130 Weight Training (1)
Use of free weight room. Brief presentation of the history of strength building includes Olympic lifting, power lifting, bodybuilding, strength research, and strength fitness. Three class hours weekly.

PE 131 Weight Training Practicum (1)
Review of PE 130 and current theories in strength training. Three class hours weekly.

PE 144 Fitness Theory and Application (1)
Basic theory of fitness, appraisal of fitness levels and applying knowledge to personal fitness goals.

PE 145 First Aid-Responding to Emergencies (1)
Meets requirements for Red Cross first aid certification: students recognize, evaluate, and prioritize first aid needs and apply appropriate aid in emergencies.

PE 146 CPR Basic Support (1)
Basic life support in cardiopulmonary resuscitation. Students are trained in course "C" basic life support, meeting American Heart Association standards.

PE 147 CPR Instructor (1)
Prerequisite: PE 146. Designed to meet American Heart Association standards. Produces highly skilled C.P.R. instructors.

PE 148 Independent Study in Physical Education (1)
Designed to meet student's unique circumstances.

PE 157 Personal Defense (1)
A planned progression of skills in self-defense situations, including standing, ground fighting, and weapons defense techniques. Psychological strategies, legal responsibilities, and ethical implications will be taught. Three class hours weekly.

PE 161 Fitness Center I (1)
Training program designed to meet cardiovcascular requirements and improve strength and flexibility. Following orientation, lecture, assessment, and testing, students attend a specified number of classes on their own. Three class hours weekly.

PE 162 Fitness Center II (1)
Prerequisite: PE 161. Continues fitness regimen, providing weight control module. Three class hours weekly.

PE 163 Fitness Center III Practicum* (1)
Prerequisite: PE 162. Pursue fitness goals through aerobic exercise machines including stairmasters, treadmills, aire-dynes, gravitrons and rowers. Sub-maximal aerobic testing available. Three class hours weekly.

PE 171 Introduction to Dance (1)
This course will provide students with a basic knowledge in various aspects of dance as a performing art. The psychomotor aspect will focus on body alignment, dance technique, flexibility, execution and recollection of short dance combinations. The cognitive aspect will cover dance history and culture. Proper dance attire is required for dance performances.

PE 172 Dance Practicum (1)
This course offers students opportunities to express their own vision and self expression in dance and focus on basic beginner choreography technique, putting movements, traveling steps in combinations to music. The course is committed to helping beginner levels develop confidence, discipline, and terminology in dance education. It will also assist aspiring dancers in preparing themselves for future auditions. Students will learn how to put dance combinations to lyrical, rock, and Broadway music under professional supervision.

PE 177 Bowling Practicum (1)
Designed to provide instruction at all levels of bowling. Students will be taught at their own level and pace. Beginners will learn the basic of bowling including history, technique, scoring and etiquette. Advanced students will have the opportunity to test their skills and develop or refine new skills. Instruction will be individualized to meet the needs and abilities of each student.

LECTURE COURSES

PE 165 Introduction to Physical Education (1)
For students who wish to transfer into a four-year program in physical education. Explores the diversity of the field, the place of physical education in educational settings, literature and research in the field, and careers.
Alternate academic years

PE 170 Sports Management (3)
Examines the sports industry and introduces sports management careers. Management functions, unique characteristics of sports, the sports manager's roles, skills, attributes, issues, social and ethical responsibilities. Three class hours weekly.

PE 175 Foundations of Physical Education (3)
This course is designed to provide teachers, coaches, athletic trainers, and persons interested in the discipline of physical education with applied knowledge relative to lifelong fitness and related activities. The lecture/discussion areas include concepts related to lifelong fitness, sports, general fitness, and specific physical education course programming. Understanding how to advocate for physical education as a discipline is an important component to the course. Three hours weekly

PE 185 Sports Nutrition (1)
This course is designed to meet the need of individuals and athletes desiring to increase their physical fitness capacity through nutrition. Topics such as carbohydrates, fats, proteins, vitamins, minerals, and water in exercise will be discussed. Effects of dietary manipulations, body composition, and supplemental aid will also be discussed.

PE 199 Physical Education for Children (2)
This course is recommended for students in Early Childhood or other Education programs. To provide philosophy, principles, activities, teaching strategies, evaluation procedures for children ages three to eight through lecture and active participation in class.

PE 215 Sports Production (3)
An introductory course in the theory and practice of television sports production. The course will provide students practical production experience in live sporting events. Students will experience a variety of production roles from producer and director to camera operator, graphics, and audio. Recommended Background: TELC 104. Three credit hours (Two lecture hours/two lab hours)

PE 240 Exercise Physiology (4)
Prerequisite: BIOL100 or BIOL103 and BIOL203. This course is designed to provide physical educators, coaches, athletic trainers, and persons interested in exercise science with applied knowledge relative to the human's physiologic responses to exercise and other environmental stresses. The lecture/discussion areas include nutrition, energy metabolism, respiratory, cardiovascular, and neuromuscular physiology, environmental factors, and applied physiology. Basic laboratory procedures and tests in the field of exercise physiology are designed to complement the lecture area. Three lecture hours, 2 lab hours weekly.

PE 250 Health Sciences Applied to Coaching (3)
A series of interactive exercises and activities designed to study Health Sciences as they apply to coaching sports. Through these activities, exercises and health applications to coaching topics, participants will gain information, organize it for professional and personal use, and apply it to their particular programs. Health Sciences as applied to coaching will also help define selected principles of biology, anatomy, physiology, kinesiology related to coaching, risk minimization, mixed competition, NYSED selection and classification of athletes, age and maturity of athletes. This course meets the New York State coaching certification requirements for health science and is intended to be 45 hours.

PE 260 Basic Care and Prevention of Athletic Injuries (3)
Introduces athletic training students and coaches to the fundamental injuries encountered during sports activities. Etiology, prevention and treatment and evaluation of specific injuries to the head, shoulder, hip, knee, and ankle will be stressed. First aid for injuries and emergency procedures will be reviewed. Students must provide their own transportation to off-campus locations.

PE 263 Internship For Athletic Training (1)
Prerequisite: PE 260. Recommended background: anatomy and physiology. Hands-on introduction for athletic training students to basic injuries encountered in sports activities. Etiology, prevention, evaluation, treatment of specific injuries to head, shoulder, hip, knee, and ankle. First aid for injuries and emergency procedures. Three class hours weekly. Students must provide their own transportation to off-campus locations.

PE 270 Sports Promotions (3)
Recommended background: PE 170. Course reviews strategies for selling sports, including advertising, merchandising, licensing, and sponsorship. Three class hours weekly.

PE 290 Internship for Sports Management (3)
Prerequisite: Students must be entering the final semester of the Business Administration A.A.S. (Concentration in Sports Management) degree program. This course will provide an opportunity for qualified students to connect classroom learning with practical work experience. Students will identify their career skills and develop specific learning goals for the work assignment. Students will prepare an employment portfolio to present to employer sponsors and interview for an internship position. The internship position will be sponsored by a local area employer for a minimum of 120 work hours. The internship will enable students to meet their learning goals and develop their skills through relevant work projects. Class meetings per student/instructor/sponsor contract.

VARSITY SPORTS

PE 020 Varsity Cross Country I (1)
Prerequisite: must meet NJCAA academic standard in order to register. Develops specialized training and knowledge in distance running. Special attention given to improving individual peak performance and achieving team recognition.

PE 030 Varsity Basketball I (1)
Develops specialized knowledge, skills, and strategies. Special attention given to techniques to improve individual peak performance and team competitiveness. Students must provide their own transportation to practice locations.

PE 035 Varsity Golf I (1)
Prerequisite: Must meet NJCAA academic standard in order to enroll in this class. Develops specialized knowledge, skills and strategies related to the sport of golf. Special attention given to techniques to improve individual peak performance and team competitiveness. Students must provide their own transportation to practice locations.

PE 040 Varsity Soccer I (1)
Prerequisite: must meet NJCAA academic standard in order to register. Develops specialized knowledge, skills, and strategies in soccer. Special attention given to techniques to improve individual peak performance and team competitiveness. Students must provide their own transportation to practice locations.

PE 045 Varsity Bowling I (1)
Develops specialized knowledge, skills and strategies related to the sport of bowling. Special attention given to techniques to improve individual peak performance and team competitiveness. Pre-requisite: Must meet NJCAA academic standard in order to enroll in this class. Students must provide their own transportation to practice locations.

PE 050 Varsity Lacrosse I (1)
Develops specialized knowledge, skills, and strategies. Special attention given to techniques to improve individual peak performance and team competitiveness. Prerequisite – must meet NJCAA academic standard in order to enroll in this class. Students must provide their own transportation to practice locations.

PE 055 Varsity Volleyball I (1)
Develops specialized knowledge, skills and strategies related to the sport of volleyball. Special attention given to techniques to improve individual peak performance and team competitiveness. Pre-requisite: Must meet NJCAA academic standard in order to enroll in this class. Students must provide their own transportation to practice locations.

PE 056 Varsity Softball I (1)
Develops specialized knowledge, skills and strategies related to the sport of softball. Special attention given to techniques to improve individual peak performance and team competitiveness. Pre-requisite: Must meet NJCAA academic standard in order to enroll in this class. Students must provide their own transportation to practice locations.

PE 060 Varsity Basketball II (1)
Develops specialized knowledge, skills, and strategies. Special attention to techniques to improve individual peak performance and team competitiveness. Prerequisite – must meet NJCAA academic standard in order to enroll in this class. Students must provide their own transportation to practice locations.

PE 065 Varsity Golf II (1)
Prerequisite: PE 035. Continues to develop specialized knowledge, skills and strategies related to the sport of golf. Special attention given to techniques to improve individual peak performance and team competitiveness. Students must provide their own transportation to practice locations.

PE 070 Varsity Soccer II (1)
Prerequisite: must meet NJCAA academic standard in order to register. Develops specialized knowledge, skills, and strategies. Special attention given to techniques to improve individual peak performance and team competitiveness. Students must provide their own transportation to practice locations.

PE 075 Varsity Bowling II (1)
Develops specialized knowledge, skills and strategies related to the sport of bowling. Special attention given to techniques to improve individual peak performance and team competitiveness. Pre-requisite: Must meet NJCAA academic standard in order to enroll in this class. Students must provide their own transportation to practice locations.

PE 080 Varsity Lacrosse II (1)
Prerequisite: must meet NJCAA academic standard in order to register. Develops specialized knowledge, skills, and strategies. Special attention given to techniques to improve individual peak performance and team competitiveness. Students must provide their own transportation to practice locations.

PE 085 Varsity Volleyball II (1)
Develops specialized knowledge, skills and strategies related to the sport of volleyball. Special attention given to techniques to improve individual peak performance and team competitiveness. Pre-requisite: Must meet NJCAA academic standard in order to enroll in this class. Students must provide their own transportation to practice locations.

PE 086 Varsity Softball II (1)
Develops specialized knowledge, skills and strategies related to the sport of softball. Special attention given to techniques to improve individual peak performance and team competitiveness in their second season of eligibility. Pre-requisite: Must meet NJCAA academic standard in order to enroll in this class. Students must provide their own transportation to practice locations.

PE 090 Varsity Cross Country II (1)
Prerequisite: must meet NJCAA academic standard in order to register. Develops specialized training and knowledge in distance running. Special attention given to improving individual peak performance and achieving team recognition.

PHYSICS

Courses are offered every academic year unless otherwise noted.

PHYS 101 Technical Physics I (4)
Prerequisite: MATH 099 or equivalent. Introduces the basic principles of physics including scalars and vectors, displacement velocity and acceleration, force, work, energy, momentum, circular and rotational motion. Three class hours and one three-hour lab weekly.
Offered upon indication of need

PHYS 102 Technical Physics II (4)
Prerequisite: PHYS 101. Continuation of PHYS 101. Covers the principles of electricity, magnetism, waves, sound, light, and an introduction to optics. Three class hours and one three-hour lab weekly.
Offered upon indication of need

PHYS 103 General Physics I (4)
Recommended background: MATH 104 or MATH 114 (or both concurrently), high school physics. For students with satisfactory experience in physics. Includes kinematics in one and two dimensions, Newton's Laws of motion, free body diagrams, work-energy theorem, conservation of energy and linear momentum, center of mass, centripetal acceleration, translations and rotations of rigid bodies, torque and equilibrium. Three class hours and one three-hour lab weekly. *(NS)*

PHYS 104 General Physics II (4)
Recommended background: MATH 104 or MATH 114 and high school physics. Continuation of PHYS 103. Course content includes Kirchhoff's voltage and current rules; reactance and resonance; electromagnetism, Faraday's Law, standing waves, the Doppler effect, reflection and refraction, mirror and lens ray diagrams, interference, diffraction and polarization. Three class hours and one three-hour lab weekly. *(NS)*

PHYS 200 Physics I – Mechanics (4)
Prerequisite: MATH 108 or equivalent. First in a three-course sequence for engineering students and science or math majors with strong mathematics background. Study of Newton's Laws, work and energy, gravitation of falling bodies, motion in a plane, momentum, rotation of a rigid body, elasticity, periodic motion, hydrostatics, fluids in motions, temperature, heat and energy, heat transfer, change of state and thermodynamic laws. Three class hours and one three-hour lab weekly. *(NS)*

PHYS 201 Physics II – Electricity and Magnetism (4)
Prerequisite: PHYS 200 and concurrent enrollment in MATH 202. A study of the electromagnetic theory using Maxwell's equations, DC and AC circuitry, electrical instruments, measurement, machinery and discharges and an Introduction to Optics. Three class hours and one three-hour lab weekly. *(NS)*

PHYS 202 Physics III – Modern Physics (4)
Prerequisite: PHYS 201. Studies electromagnetic wave properties including propagation, reflection, refraction, diffraction polarization and optical instruments. Also, atomic structure, quantum theory, relativity, nuclear models and radioactivity. Three class hours and one three-hour lab weekly.
Offered upon indication of need *(NS)*

POLITICAL SCIENCE

Courses are offered every academic year unless otherwise noted.

PSCI 101 Modern Government (3)
Examines fundamental political concepts, theories and issues. Emphasis on the nature and importance of politics, aspects of the political community, states and nations, and the process and machinery of government. Covers a comparison of governments of several modern nations. Three class hours weekly.

PSCI 102 American Government (3)
Introduction to the national system of government and politics, this course describes, analyzes and explains the political process in America as it relates to the national government. Study includes the founding process, federalism, the legislative, executive and judicial branches, the operation of parties and elections, the role of law and the courts in rights and liberties, and the process of creating both domestic and foreign policy. The course seeks to give students an understanding of the way behavior of the President, Congressional members, Supreme Court justices and ordinary citizens influences formulation of governmental policies. *(NS)*

PSCI 206 International Relations (3)
Covers issues pertaining to international peace and security, economic relations, human rights, social and cultural developments, colonialism and international law. These issues are discussed in terms of their development and importance. Also considers actions of the international community in dealing with these problems. Three class hours weekly.
Offered upon indication of need

PSCI 207 U.S. Constitution (3)
Introduces the study of public law. Covers separation and delegation of governmental powers, the federal system, powers of the national government, the judicial function and its limitations, due process and civil liberties. Three class hours weekly.
Offered upon indication of need

PSCI 214 Comparative Legal Traditions (3)
Recommended background: PSCI 102, CJ 111, or CJ 115. Examines the legal and criminal justice systems of different nations and cultures. Focus on the influence of historical, political and social factors on these systems. Compares other societies and the United States in perceived causes of crime and differing approaches to rehabilitation and crime prevention. Cultures representing Europe, Africa, Asia and America, (before 1500 CE), are included. Three class hours weekly.
Offered upon indication of need *(OW)*

PSYCHOLOGY

Courses are offered every academic year unless otherwise noted.

PSY 100 Psychology of Adjustment (3)
This course will explore the processes of human psychological adjustment, growth, and coping. The emphasis of the course will be behavior change and will rely on personal reflection through various means of psychological exploration. Psychological principles will be applied to stress and mood management, self-esteem, social adjustment, communication, and human relationships. This course will also permit the exploration of practical aspects of psychology that will encompass group participation, self-disclosure, and empathy. This course does not replace PSY 101 in the Psychology Concentration track or as a prerequisite for upper-level psychology courses.

PSY 101 Introductory Psychology (3)
Basic orientation to the psychology of human behavior. Studies the aims and methods of psychological investigation and measurement, and biological and social influences on behavior. Also focuses on learning, motivation, emotion, perception, and personality development. Three class hours weekly. *(SS)*

PSY 165 Psychology of Multicultural London (3)
Prerequisite: Completion of PSY 101 or an Introduction to Psychology course. London is known as the multicultural center of Europe and has the largest non-white population of any European city. This course will not only investigate the broad aspects of psychology, but will also examine how diversity effects the population as a whole. Students will be able to observe the perspectives of different cultural groups and their traditions, language, and customs. Individual and multicultural identities will be also investigated. Several historic sites including the famous Freud museum, London's street markets, and various ethnic neighborhoods will be explored.

PSY 203 Social Psychology (3)
Prerequisite: PSY 101. Basic social psychology concepts in contemporary theoretical orientations and related research findings. Covers motivation, personality, attitude formation and change, leadership, group dynamics, roles, social norms, audiences, collective behavior. Three class hours weekly.
Offered upon indication of need *(NS)*

PSY 205 Psychology of Personality (3)
Prerequisite: PSY 101. Basic orientation to the psychology of personality. Examines major theories including psychoanalytic, behavior, humanistic, phenomenological and others. Explores certain general issues such as achievement, motivation, psychopathology, sexual adjustment, and personal religious orientation. Three class hours weekly. Alternate academic years. *(NS)*

PSY 206 Abnormal Psychology (3)
Prerequisite: PSY 101. Scientific view of abnormal behavior and mental illness covers historical overview, unscientific attitudes and legends; emergence of science; movements; classifications; origins of behavior; personality; defensive reactions; psychoneuroses; functional and organic psychosis; addiction; mental deficiency; psychosis of the aged; criminal psychosis; diagnostic procedures and types of therapy. Also examines modern mental hospitals and clinics and discusses professional disciplines. Three class hours weekly. *(NS)*

PSY 210 Psychology of Human Relationships (3)
Prerequisite: PSY 101. This course will focus on scientific theory and research involving close relationships. Topics include interaction in various types of relationships, physical and psychological attraction, self-disclosure and presentation, balance and equity in relationships, love and attachment, sexuality, communication and conflict. The initiation of a relationship to the time of dissolution is covered. Three class hours weekly.

PSY 212 Development Psychology - Life Span (3)
Prerequisite: PSY 101. Introduction to the foundations of human development across the life span. Developmental processes and issues characterizing various stages of aging are studied, with attention to the interrelationships of the various stages and intergenerational issues. Three class hours weekly.*(NS)*

PSY 213 Psychology of Sport and Motivation (3)
Prerequisite: PSY 101. Examines sport psychology and motivation, goal-setting, group dynamics. Characteristics of successful athletes, coaching and counseling young athletes, motivational theories, team development, attribution theories, female athletes, building athletes' self-esteem. Focuses on the perspective of coaches and counselors in educational and community settings. Three class hours weekly.
Alternate academic years

PSY 214 Selected Topics in Psychology (3)
Prerequisite: PSY 101. Studies contemporary issues. A reading and discussion oriented format. Topics include learning and motivation, perception and consciousness, psychology, literature and art, stress, and distress. Three class hours weekly.

PSY 215 Child Psychology (3)
Prerequisite: PSY 101. Examines human growth and development from conception to puberty. Students are exposed to a scientific perspective regarding theory and research in the areas of physical, cognitive and psychosocial development. Topics include childbirth, language development, child abuse and parenting styles. Three class hours weekly. *(NS)*

PSY 216 Adolescent Psychology (3)
Prerequisite: PSY 101. Examines the growth and behavior of the adolescent and young adult. Studies the effect of physical and environmental changes on the individual, physical, social, emotional, and personal growth and development. Considers individual differences, applications of development and the effect of rapidly changing times. Three class hours weekly. *(NS)*

PSY 217 Introduction to Children with Exceptionalities (3)
Recommended background: PSY 101. Focusing on working with children in an educational setting, course introduces students to the various exceptionalities, characteristics of children with exceptionalities, federal and state laws, educational implications, and strategies for working effectively with families and other professionals. Off-campus observations may be required with students providing their own transportation.

PSY 220 Psychology of Alcohol, Drug Use and Abuse (3)
Prerequisite or concurrent enrollment: PSY 101. Introductory orientation to the psychology of human behavior related to substance use, abuse, and dependence; aims and methods of psychological investigation; the impact of alcohol and drug use on the individual, family, and community. A review of alcohol, prescription medications, over-the-counter medications, and illegal substances is examined and discussed. 3 class hours weekly. Offered upon indication of need.

PSY 221 Assessment, Evaluation and Treatment Planning (3)
Prerequisites: PSY 101 and PSY 220. Orientation to assessment, evaluation, and developing treatment plans for the addicted client as in cases of substance use, abuse, and dependence. It explores the assessment of alcohol and drug use on the individual, family, and community. It studies the aims and methods of treatment utilization specifically designed towards the addicted client. 3 class hours weekly. Offered upon indication of need *(NS)*

PSY 222 Research Methods in Psychology (3)
Prerequisite: PSY 101. This course is an introduction to the logic and methods used in psychological research. More specifically, this course will provide a supervised experience in the application of such research methods as surveys, simple experiments and more complex multi-variable experiments. Students will explore the development of research questions, the selection of the appropriate methodological approach in psychological research, and the interpretation of data and results. This course will also focus on exposing students to library research in psychology and the writing of research reports that adhere to Publication Manual of the American Psychological Association (APA). Three class hours weekly.

PSY 223 Introduction to Biological Psychology (3)
Prerequisite: PSY 101. This course is an introduction to the interaction between our biology and everything we do, think, and feel. More specifically, it is a survey of the theories and research pertaining to the scientific study of anatomy, physiology, and pharmacology of behavior and mental processes. It will focus primarily on the structures and functions of the nervous system and explore how the nervous system affects such phenomena as development, sensation & perception, movement, sleeping, eating, sexual behavior, learning & memory, language, thoughts, emotions, and psychiatric disorders. It will also consider the relationship between the body and mind, and how and why brain activity gives rise to your unique conscious experience. Three class hours weekly. *(NS)*

SOCIOLOGY

Courses are offered every academic year unless otherwise noted.

SOC 101 Introductory Sociology (3)
Introduces sociology as a science concerned with relationships, institutions, organizations, and the physical environment. Outlines the major theories as a basis for sociological perspectives on social issues. Covers the origins of sociology as a science, diverse patterns of social organization from a global perspective, the nature and substance of cultural systems and social institutions, and sociological perspectives in analyzing trends in human society. Three class hours weekly. *(NS)*

SOC 102 Contemporary Social Issues (3)
Prerequisite: SOC 101. An in-depth examination of selected social problems, their nature, causes, extent and their effect upon society. Includes theoretical explanations, significant research studies and evaluations of various techniques of control. Three class hours weekly.
Offered upon indication of need

SOC 104 Marriage and the Family (3)
Prerequisite: SOC 101. Presents a sociological analysis of the family and its forms and functions in a variety of cultural settings. It provides students with a sociological framework for viewing one of the major social institutions of society in a global context – its origins, structure, functions, and the many challenges it faces in the 21st century. Three class hours weekly.
Offered upon indication of need

SOC 105 Deviant Behavior (3)
Prerequisite: SOC 101. Sociological approach to the nature and substance of deviant behavior. Examines the body of sociological theory dealing with the causes, distribution, and societal reaction to deviant behavior. Three class hours weekly.
Offered upon indication of need

SOC 110 Race and Ethnicity (3)
Prerequisite: One of the following courses: SOC 101, ANTH 101, HIST 101, 102, 103, 104 or 105. Provides an overview of the social and ethnic diversity of the United States. Delves into the cultures of various racial and ethnic American minorities and deals with theories of prejudice, discrimination and inter-group relations. Discusses techniques for eliminating these problems. Three class hours weekly. *(NS)*

SOC 120 Sociology of Sport and Leisure (3)
Recommended background: SOC 101. The study of sport and leisure in society is concerned with how sport influences, and in turn, is influenced by, institutions (education, politics, religion, science, economics, mass media). Sport has been described as a microcosm of our society values—competition, materialism, bureaucracy, power (Coakley, 1986; Eitzen and Sage, 1982). The pervasiveness of sport as an institution is the academic focus of the course. Three class hours weekly.
Alternate academic years

SOC 203 Selected Topics in Substance Abuse (3)
Prerequisite: SOC 101 or PSY 101. Studies contemporary issues and problems through readings, discussion, role-playing, experiential work. Topics cover addictive/compulsive behaviors, medical and religious models of addiction; learning theory and addiction; addiction to alcohol, legal and illegal drugs, love, sex, food, cigarettes, coffee, shopping, soap operas, gambling; workaholic syndrome; cleaning compulsion; hypochondria; weight problems including bulimia and anorexia; family patterns in addiction; children of addictive/maladjusted families; other addictions/compulsive behaviors as viewed in public and therapy. Three class hours weekly.
Offered upon indication of need

SOC 255 The Impact and Implications of Social Media & Networking on a Global Society (3)
This course will introduce the theory of social networking, the study and analysis of diverse social networks, as well as cover the impact of social networks on individuals and on the local and global environment. Course will incorporate blogs, Facebook, YouTube, Second Life, Word Press, Meetup.com and other associated platforms. The social implications that will emerge as society continues to move forward with these technologies will range from the most positive to the challenging. The course will cover these implications. Cross-listed as TELC 255.

SOMA

SOMA 100 Foundations in the Humanities (1)
This course is designed to introduce students to the study and practice of the humanities, arts and media. Through readings, guest speakers, journals, and collaborative class and group activities students will learn strategies for success in college-level learning in the humanities, arts and media as well as success in careers and future academic endeavors. One class hour weekly for 15 weeks.

SPANISH

Courses are offered every academic year unless otherwise noted.

SPAN 101–102, 103–104
Elementary and intermediate foreign languages begin in the fall only and continue as a year sequence. Students who need a full year should be aware of this. When in doubt about placement, students are urged to seek advice of foreign language faculty or the Humanities Division chair.

SPAN 101-102
Elementary Spanish I-II (4 / semester)
Introduces fundamentals of Spanish grammar and develops all four skills of communication: listening, speaking, reading and writing. Videos and music help familiarize students with cultural aspects of Hispanic society. Focus on classroom audiolingual practice, supplemented by laboratory work. Recommended for beginning students to meet a foreign language requirement for degree or career. (Native Spanish speakers should not enroll. Students who have had high school Spanish through Regents level may not take SPAN 101-102.) Three class hours weekly/required laboratory. SPAN 101 is the prerequisite for SPAN 102. *(FL)*

SPAN 103-104
Intermediate Spanish I-II (3 / semester)
Improves understanding, speaking, reading, and writing through review and further study of grammar, readings, and video material on Hispanic civilization, people, and culture. Recommended for students with a year of college Spanish, high school Regents Spanish, or two strong years of high school Spanish. Three class hours weekly. SPAN 103 is the prerequisite for SPAN 104. *(FL)*

SPAN 110 Accelerated Spanish (6)
This is an accelerated course in which SPAN 101 and SPAN 102 are combined into one semester (6 credits). This course is designed for students who wish to move at a faster pace than is permitted by the SPAN 101 and SPAN 102 courses, or for those who have taken one or more years of Spanish previously and wish to review and practice basic Spanish at a quickened pace. The focus is on the fundamentals of Spanish grammar as well as the communicative skills of listening comprehension, speaking, reading and writing. This course is an online course. Via the resources provided, students will enhance their knowledge of Spanish grammar and culture while improving communication skills throughout the semester. No prerequisite. (Students who have had three years of high school Spanish may not take SPAN 110. Native Spanish speakers should not enroll) *(FL)*

SPAN 111-112
Spanish Conversation I-II (3 / semester)
Level I: no prerequisite. Level II presupposes basic knowledge of Spanish Develops proficiency in speaking and understanding basic Spanish. Videocassettes and slides are used to familiarize students with everyday life in the Hispanic world. Practice with tapes is encouraged. No previous knowledge of Spanish is required for SPAN 111. Three class hours weekly. *(FL)*

SPAN 121 Spanish for Public Safety Officials (3)
Thorough verbal and written practice of Spanish vocabulary pertaining to the Criminal Justice field. Vocabulary pertains to basic information, arrest, booking, DUI, Vehicle Search, Miranda Rights, etc. Cultural issues as they pertain to certain field situations are discussed. Three class hours weekly.

SPAN 131 Spanish for Healthcare Professionals (3)
Extensive verbal and written practice of Spanish vocabulary pertaining to the Health Care Field. Spanish will be practiced through the use of visual aids, textbook exercises, as well as verbal and written conversations with attention to cultural issues as they pertain to the health care field. Three class hours weekly.

SPAN 150 Spanish for the Professions (3)
Spanish for the Professions provides immediate access to functional verbal and written Spanish language skills as well as cultural awareness for non-Spanish speaking persons when interacting with Spanish speaking persons in a professional setting. As students enrolled in a specific degree, diploma or certificate program, they will use their knowledge of Spanish in fields such as health, business, public safety, social services, as well as restaurant and hotel management to comprehend the situation at hand and respond appropriately. The course is designed for those either studying their future profession or currently working who wish to eliminate barriers to understanding and communication so that they may work as effectively and efficiently as possible while interacting with Spanish speaking persons on the job. The focus of the vocabulary presented will vary as the specific needs of the students vary. Three class hours weekly. No prerequisite *(FL)*

SPAN 220 Spanish Literature (3)
In this course, students will be introduced to Spanish literature from both Spain and Latin America. Students will be reading and interpreting short literature pieces from famous Spanish authors in the target language, while also being introduced to cultural issues and differences in the Spanish-Speaking world. Prerequisite: two semesters of college Spanish, or three years of high school Spanish, Three class hours weekly. *(FL)*

SPAN 230 Spanish Grammar (3)
This course provides a comprehensive review of Spanish grammar with attention given to advanced concepts and structures that are not covered in the lower-level courses. Also included is the development of writing skills through the application of grammar concepts in composition. The format of the course and the text will enable students to use and further develop the language skills acquired in earlier courses while studying the more complex aspects of the language. Prerequisite: two semesters of college Spanish, or three years of high school Spanish, Three class hours weekly. *(FL)*

STUDENT DEVELOPMENT

Courses are offered every academic year unless otherwise noted.

SD 101 Career and Life Planning (3)
Provides a systematic method for making career and life style decisions. Presents a structured method for practicing effective decision-making skills, clarifying one's values and learning job-hunting techniques. Examines other topics that influence life and career choices such as goal setting, stress management and communication styles. Individuals develop personal strategies for short- and long-term educational and career planning. Three class hours weekly.

SD 102 College Success (1)
Extended orientation to college, recommended for the first freshman semester. Addresses academic success through topics such as getting organized, reading for learning, test-taking skills, faculty expectations, careers and choosing a major, library research, college services, extracurricular activities, personal growth. Two class hours weekly.

SD 201 Introduction to Civic Engagement (3)
As the introductory course for the Civic Engagement, this course will involve students in field experiences in community agencies and help them reflect on the meanings of community, service and leadership as they work with agencies. Recognizing civic responsibilities and the value of volunteerism as related to community development, students will examine and explore leadership theory and techniques as demonstrated by community members. Students must provide their own transportation to off-campus sites.

TELECOMMUNICATIONS

For information about the following courses: Video Production1, Video Production 2, Introduction to Mass Media, Media and Society, Intro to the moving Image, and Digital Imaging, Please refer to the Communications section on pages 88-89

Courses are offered every academic year unless otherwise noted.

TELC 102 Introduction to Telecommunications (3)
Introduces the practices and business aspects of American telecommunications industries. Explores the history, structure, organization, and function of telecommunications. Three class hours weekly.

TELC 104 Audio Video Production Techniques I (3)
Focuses on basic audio and video production techniques. Students attend two weekly lectures dealing with how telecommunications equipment works, with emphasis on the proper operations of video and audio devices. One two-hour lab per week provides the opportunity to practice the techniques explained in lectures. The actual operation of audio and video production equipment begins the first week of class. Material discussed is divided equally between audio and video topics. Two class hours/two lab hours weekly.

TELC 105 Video Editing (4)
An introduction to the basic techniques of video editing. The courses includes instruction on capturing and ingesting video from a variety of acquisition formats; basic video editing techniques; video compression; and preparing video for a variety of deliverable formats, using professional video editing programs. Four class hours weekly.

TELC 106 Radio and Television Announcing (3)
Prerequisite: TELC 104. Develops the techniques involved in non-dramatic performance in the broadcast industry. Includes the mechanics of voice, diction and vocal presentation with emphasis on message design and communicating ideas. Students complete a variety of exercises for presentation in the radio and television media. Three class hours weekly.

TELC 114 Lighting (3)
Lectures and labs teach the theories and methods of lighting for television, film, and theatre production. Basic design as well as instrument selection and application, control systems, electricity, circuiting and color theory will be covered. Required for radio and television majors. Three class hours weekly.

TELC 140 Analysis of Broadcast Equipment Systems (3)
Recommended background: TELC 104 or ELEC 101. Lecture and laboratory course teaches how various components within radio, television and cable facilities form a working system. Emphasis on proper interface of equipment, equipment compatibility, and changes and substitutions which may be made during equipment failures. Three class hours weekly.

TELC 165 Broadcasting: The British Experience (3)
Travel-study course offers a comprehensive view of the broadcasting industry in Great Britain. Examines the major differences between the British and American broadcasting systems, as well as the impact of American programming and technology in Britain. Includes visits to broadcast facilities and lectures by professionals in the British broadcasting industry.
Intersession only

TELC 170 Introduction to Interactive Media Techniques I (3)
Introduction to techniques and processes of content creation in interactive and digital media formats. Covers the use of CDs, DVDs and websites by broadcast, cable, satellite and internet delivery providers. Two classes, two lab hours weekly.
Offered upon indication of need

TELC 176 Video Game Design (3)
This course introduces the student to the development and design of video games. Students will design and develop basic video games. Students will learn to prepare a game plan in developing their games and create game environments such as action games, maze games and multi-player games. Students will learn to use sprites, objects, events and actions and sounds in game development. They will also learn game mechanics, interactivity controls, level design, game variable adjustments, game behaviors, creating computer-based opponents and methods for making games challenging to prospective players. Students will be introduced to software used to create original game resources such as objects, sounds and visual elements. Finally students will be able to post their completed games online to share with others. Three lecture hours weekly.

TELC 178 Digital Animation (3)
This course introduces the student to 3-D computer generated graphic animation. The students will use animation software to develop skills in animation art and technique. Students will explore software interface and develop skills for working in three dimensions, with mesh modeling and multi-resolution sculpting. Students will learn to use materials, textures, texture mapping and unwrapping techniques. They will learn the basic concepts of animation and animating characters and objects. Instruction will include lighting objects in the 3 dimensional workspace. Finally students will learn the procedure for rendering their projects for use in other media and game creation applications. Three lecture hours weekly.

TELC 180 Video Field Production (3)
Prerequisite: TELC 104. An introductory course in video field production. Students will learn the aesthetics and techniques of single camera on-location video recording and postproduction editing. Includes practice in planning location shoots, operating camcorders, location lighting and audio, and video editing. Students will produce single-camera video projects individually and in groups. Two lecture, two lab hours weekly.

TELC 190 Script Writing for Film & Television (3)
Introduces the student to the process of writing scripts for film and television. The stages of script development will be explored. Emphasis will be placed on dramatic structure, character development, plot structure and dialogue. Three lecture hours.

TELC 192 Script Analysis and Production (3)
Prerequisite: TELC 104. Introduces the student to the analysis and development of scripts from written form into actual video and film productions. Each student will take an idea for a short narrative film through the stages of concept, script, and finished production and produce a short narrative production. Three lecture hours weekly.
Offered upon indication of need

TELC 195 Advanced Video Editing (1)
This course provides in-depth experience in the operation of specific video editing software and hardware technologies.

TELC 199 Selected Topics in Telecommunications Technology (1)
Provides experience in the operation of specific software and hardware technologies in audio, video, telecommunications and related media fields. One class hour weekly for 15 weeks or three class hours weekly for five weeks.
Offered upon indication of need

TELC 204 Journalism Practicum (3)
Extensive experience in the operation of a college newspaper. Students participate in editorial, design, advertising, and circulation activities. Requires a minimum of six hours per week of practical activity and two class hours per week. Also requires research into a specific area of newspaper operations.

TELC 205 Practicum in Radio Operations (3)
Prerequisite: TELC 104. Provides extensive experience in radio operations. Students may participate in on-air operations, public service production, or news gathering and presentation. Requires at least 10 hours per week of practical activity and one 1-1/2 hour class period for each student for 10 weeks. Also requires research into a specific area of radio management, operations or engineering.

TELC 206 Practicum in Radio Operations Management (3)
Prerequisite: TELC 205. Extensive experience including all phases of operations management and decision-making for all activities at the student radio station. Includes FCC legal and technical compliance, selection and training of staff, music format, selection policy, news, station promotion, traffic, and continuity. Requires at least 10 hours per week of practical activity and one 1-1/2 hour class period for 10 weeks, and research into a specific area of radio management. Enrollment limited to student managers of the college's radio station.

TELC 210 Special Topics in Telecommunications and Mass Media (3)
Devoted to a specific topic or area of expertise in audio, video, or media-related field. An opportunity for in-depth experience in an area not fully covered in other classes.
Offered upon indication of need

TELC 212 Broadcast Journalism (3)
Prerequisite: TELC 104. Students will learn the fundamental principles and skills of producing local television newscasts including news judgment and story selection, information gathering, writing and editing copy, working with video and other visuals, preparation of news in various formats including packages, formatting news programs and basic studio production techniques. (two lecture hours, two lab hours)

TELC 215 Sports Production (3)
An introductory course in the theory and practice of television sports production. The course will provide students practical production experience in live sporting events. Students will experience a variety of production roles from producer and director to camera operator, graphics, and audio. Recommended Background: TELC 104. Three credit hours (Two lecture hours/two lab hours)

TELC 220 Advanced Audio Production (3)
Prerequisite: TELC 104. Provides an advanced understanding of audio equipment in the field and in the recording studio. Topical areas include sound reinforcement, recording studio techniques and acoustic analysis. Three class hours weekly.

TELC 221 Audio Editing (4)
Audio Editing is a lab course that introduces, through practical hands-on experience, the equipment and procedures used in multitrack recording and computer audio programs such as Pro Tools and Adobe Audition. Topics include waveform editing, MIDI editing, playback options, trimming, fades, and automation. Four class hours weekly.

TELC 230 Music / Multi-Track Recording (4)
Prerequisite: TELC 104. Co-requisite: TELC 220. An advanced course in sound recording. Instruction in the methodology of both live and multi-track recording, including acoustics, microphones, recording devices, mixing consoles, loudspeakers, and software. Emphasis on multi-track recording technology including overdubbing, remixing and signal processing. Also studies basic industry practices. Two class hours/four lab hours weekly.

TELC 231 Advanced Recording Techniques (4)
Prerequisite: TELC 230. An advanced course in multitrack recording technology and recording industry practices. Topics include business aspects of the recording industry; studio operations and maintenance, current practices and anticipated future developments. Covers an in-depth study of over-dubbing, remixing and album production through the production of recorded material. Students plan, develop and produce all aspects of a professional quality recording production. Two class hours/four lab hours weekly.

TELC 240 Audio for Media (3)
Prerequisite: TELC 104. Designed to develop understanding of the relationship of audio production to various related media including radio, television, video, multimedia and film. Emphasis on sound design and on the creation and recording of radio spots, dialogue, music beds and soundtracks. Students produce several projects under the supervision of the instructor. Three class hours weekly.

TELC 255 The Impact and Implications of Social Media and Networking on a Global Society (3)
This course will introduce the theory of social networking, the study and analysis of diverse social networks, as well as cover the impact of social networks on individuals and on the local and global environment. This course will incorporate blogs, Facebook, YouTube, Second Life, Word Press, Meetup.com and other associated platforms. The social implications that will emerge as society continues to move forward with these technologies will range from the most positive to the challenging. Three lecture hours.

TELC 260 Broadcast Systems Maintenance (3)
Recommended background: TELC 140. Provides instruction in the maintenance of radio and television broadcast equipment. Emphasis on procedures common in daily routine preventive maintenance. Three class hours weekly.

TELC 270 RF Transmission Systems (3)
Recommended background: MATH 104 and ELEC 102. Provides instruction in the operation and maintenance of RF Transmission Systems. Studies radio and TV broadcasting systems, microwave, satellite and cable systems for video, audio, voice and data. Includes visits to various types of transmission facilities. Three class hours weekly.

TELC 275 Internship in Radio and TV (3)
Prerequisite: TELC 104 and 207. Intensive individual study and field experience in a telecommunications area of choice to obtain in-service training at a broadcasting facility. Requires a minimum of eight hours weekly at internship site and one weekly class meeting for a progress report. Requires periodic written reports and a journal of on-site activities. May be taken only during the final semester. One class hour weekly.

TELC 280 Video/Film Business Practicum (3)
Prerequisite: TELC 104. This course introduces students to the practice of managing an independent production company. Students gain experience in program origination, program development, production, legal issues, copyright regulations, marketing and distribution. Participation, under the supervision of faculty and staff, in the college's student production company, C3 Studios, is required.

TELC 282 Music Business Practicum (3)
Prerequisite: TELC 104. This course introduces students to the practice of managing a record company. Students gain experience in A&R, legal issues, copyright regulations, recording, publishing, marketing and distribution. Participation, under the supervision of faculty and staff, in the college's student record company, Cayuga Records, is required.

THEATRE ARTS

Courses are offered every academic year unless otherwise noted.

THA 101 Introduction to Theatre (3)
In this lecture course, students will explore the components that make up the world of theatre. Class discussions cover far ranging topics such as audience development, acting, directing, designing, history and the business of show business; what it takes to create a show, whether on Broadway or in Auburn, NY. Students will learn that there is more to theatre than what is seen up on the stage. No acting is required for this class. Three class hours weekly. *(AR)*

THA 110 Theatre Practicum (1)
Prerequisite: THA 113 or 152, or concurrent enrollment. Theatre production is not a subject that can be learned passively. Students in this course will be actively involved in the creation and operation of a live theatre performance. Participation may include, but is not limited to: publicity, acting, directing, scenery construction and painting, costuming, lighting, audio, running crews and stage management. May be repeated for a maximum of 4 credits.

THA 113 Introduction to Technical Theatre (3)
Lecture and hands-on course develops awareness and appreciation as it explores scenic construction and painting, lighting, costuming, make-up, properties, stage management, show run crews and safety practices. Note: Course requires hours outside of class for the preparation of a live theatre piece.
Alternate academic years *(AR)*

THA 152 Basic Acting (3)
Treating Acting as an avocation rather than a profession, this course introduces some of the physical, mental and vocal techniques used by actors. Students become aware of the image they present. Class participation is required through improvisational exercises, scene work and character studies, with an emphasis on process rather than performance. Three class hours weekly.
Alternate academic years *(AR)*

THA 165 Selected Topics in International Theatre: The London Theatre (3)
Participants spend two weeks in London attending and discussing plays presented by the National Theatre, Royal Shakespeare Company in Stratford-on-Avon, several West End theatres, and experimental companies of the Fringe. Seminars discuss productions with guests from these companies, including directors, actors, playwrights and designers.
Intersession only

THA 210 Creating a Character (3)
Prerequisite: THA 152. The course builds on the introductory material learned in Basic Acting. It concentrates on the skills used by modern actors to develop a realistic character portrayal. The techniques of the great acting teachers of the 20th century will be explored. This studio course requires acting in class. Three class hours weekly.
Alternate academic years

THA 238 Special Topics in Theatre (1)
Course is devoted to a specific topic or area of expertise in Theatre. Students will have an opportunity to experience an area of theatre study not fully covered in other courses. This course may be repeated for credit up to three credits, depending on subject matter.

THA 239 Special Topics in Theatre (3)
Course is devoted to a specific topic or area of expertise in Theatre. Students will have an opportunity to experience an area of theatre study not fully covered in other courses.

WINE STUDIES

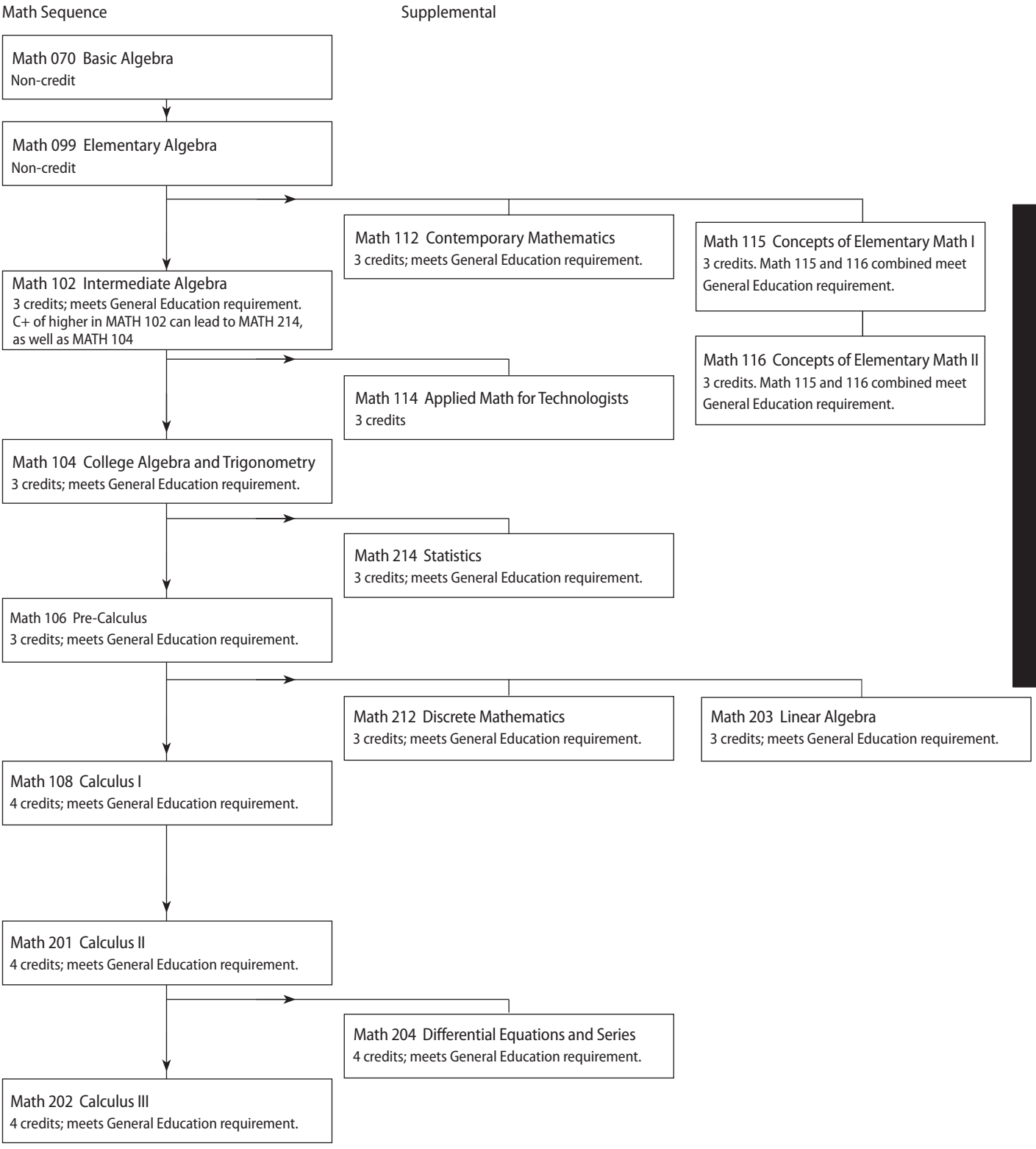
Courses are offered every academic year unless otherwise noted.

W.S. 110 Introduction to Wines of the World (3)
This course is a comprehensive class covering the basics of wine, taste and evaluation of wines, and the most prominent wine regions in the world. Specifically, we will study wines, terroir, and wine laws from the following countries and states: France, Italy, Spain, Portugal, Germany, Hungary, Greece, Canada, Australia, New Zealand, Chile, Argentina, South Africa, California, Washington, Oregon, and New York, with emphasis on the Finger Lakes region. Other regions from Europe, the Mediterranean, and the United States may also be evaluated. This class will also study the history of wine and introduce all of the major grape varieties. A tasting lab will be included with each class where we will study wines' appearance, aroma, taste, and texture. Wine descriptors and terminology will be learned and enhanced as the class progresses. To complete the wine tasting portion of the course students must be 21 or older OR Students under age 21 can still register for the class but will not be permitted to taste wine and will be given alternate assignments.

W.S. 180 Introduction to Viticulture and Enology (3)
Course covers the fundamentals of viticulture (growing grapes) and enology (making wine). The course is designed as an elective for students completing the A.A.S. degree in Business Administration with Wine Studies Concentration. Students will learn basic grape physiology such as the major varieties, pruning and trellising, soils, climate conditions, and major grape diseases. Basic fermentation techniques such as primary alcohol fermentation involving yeast and secondary malolactic fermentation involving bacteria will also be covered. Simple chemical analysis will include sulfur dioxide, alcohol, acid, and sugar determination. Students will order grapes from a winery, ferment the grapes to wine, and analyze the wine using materials and instruments supplied in their wine kits. Cross-listed with BIOL 180

Mathematics flowchart

Students are required to take the mathematics placement test to determine their first college math course. Exceptions are made for students who have passed high school calculus; these students are automatically placed in Calculus I. Students who request placement in Calculus II will be given a separate examination by the mathematics faculty.



Other Academic Offerings

Cayuga offers courses and programs of study that enable you to earn an associate degree or certificate, or enjoy the satisfaction of lifelong learning. Classes are offered weekdays, evenings, and online. Besides fall and spring semesters, Cayuga holds classes during intersession (January) and summer (four-, six-, and ten-week sessions). Courses are also offered through the high school-based Cayuga Advantage program.

Full-Time Study

Full-time study means enrollment in 12 or more hours per semester, in classes offered primarily during the day. Students who wish to take more than 19 credits during a semester must receive permission from a division chair.

Part-Time Study

Students who register for up to 11 credit hours during a semester are classified as part-time.

Online Study

www.cayuga-cc.edu/academics/online/
Brandon Davis-Shannon, Director of Distance Learning
315-294-8498

With more than 600 sections offered each year, Cayuga has a wide selection of online courses from which to choose. Students can combine online and classroom courses within any semester.

DEGREES AVAILABLE ONLINE

- Business Administration A.A.S.
- Business Administration A.S.
- Liberal Arts and Sciences: Humanities and Social Sciences A.A.
  - Concentrations available in Criminal Justice, Literature, Psychology, and Writing
- Liberal Arts and Sciences: Mathematics and Science A.S.
  - Concentration available in Biology
- Criminal Justice: Police A.A.S.

CERTIFICATE PROGRAMS ONLINE

- Criminal Justice
- General Business
- Event Management
- Tourism Management

Online courses at Cayuga are generally completed entirely online. Lab courses either use computer simulations or require students to purchase lab kits to conduct experiments at home. However, some courses like math, require a proctored exam. If you live in the area, you can take tests on campus (Auburn or Fulton) in the Center for Academic Success, or instructions in the course will explain how to find a proctor at a local college, school, church, etc. Online courses may, like on-campus courses, require extra-curricular activities, ie. visiting a local court in a Criminal Justice class, or attending an Alcoholics Anonymous (AA) meeting in a Health course about addiction.

All fully-online courses are asynchronous, meaning you may sign on at any time of the day or night, wherever you have internet access. Online courses are demanding. They are not self-paced or self-study, and should not be viewed as easier than classroom courses. They are actively led by an instructor, and there are deadlines. Normally, a semester course will consist of a series of two-week modules. In each module, you will be expected to read the textbook and other materials, read faculty lectures online, submit your answers to questions, complete other exercises or assignments, and participate in online discussions (e.g. reading short notes posted by other students and posting your own responses). In a 15-week semester, students on average are expected to log on to the website about three times per week to complete their work.

Honors Study

www.cayuga-cc.edu/academics/opportunities/honors-study/
Auburn Campus
Sheila Myers, Coordinator
315-294-8529 or sheila.myers@cayuga-cc.edu
Fulton, Campus
Paul Nolan, Coordinator
315-593-9326 or nolan@cayuga-cc.edu

Honors students graduate with the distinction of an "Honors Study" degree. The honors experience develops qualities of leadership and service, which often extend beyond the classroom, and which are supported by dynamic faculty, rigorous academic expectations, and a sense of community. Honors students take many of the same courses as other students, plus three courses specifically designed for students in honors study. With a total of six courses, the honors option provides a multidisciplinary perspective and opportunities to learn outside a traditional classroom setting.

ADMISSION
Any student with a GPA of 3.0 or 85% or higher is eligible for admission. Students who do not meet the criteria when they enter Cayuga may join after one semester by earning a 3.0 GPA. Once accepted, students must maintain a 3.0 GPA.

THE HONORS CURRICULUM
The Honors sequence complements study in transfer-oriented degree programs, and is designed to fulfill SUNY General Education requirements.

Students must complete a sequence of honors coursework:

- Hon 101 – 1 credit Introduction to Critical Thinking
- Lib 102 – 1 credit Information Research Skills
- Three elective courses (see below)
- Hon 202 – 3 credit Honors Seminar Course

Students must complete three elective courses selected from:

- Courses specifically designated as honors
- Courses designated as experiential learning (EL)
- Travel study courses
- Students may use one course designated as writing intensive (WI) to satisfy one honors elective.

HONORS STUDY AND PROGRAM COMPLETION
Honors study is suitable both for first-time college students and for many students who transfer to Cayuga after earning credits elsewhere. Some Honors courses are open to qualified non-Honors students as a way to focus on topics of interest.

In many programs of study, Honors courses will fill General Education requirements and entail no additional coursework. However, for some programs of study with tightly-structured requirements, additional coursework may be necessary. See your degree program page for details.

ACCEPTANCE INTO HONORS STUDY
Acceptance is based on your high school average and your submission of the Honors study application, available online at **www.cayuga-cc.edu/academics/wp-content/uploads/sites/9/2016/01/honors-study-application-2015.pdf.** Decisions are based on consultation between the Admissions Office and the Honors study coordinators. Once accepted, you must maintain a 3.0 grade point average to continue in the program. If you are interested in Honors study, talk to a Cayuga admissions representative or contact the Honors study coordinators:

Travel-Study Courses

www.cayuga-cc.edu/academics/opportunities/travel-study/
315-294-8527

Cayuga Community College offers a variety of domestic and international travel-study programs.

Financial aid, in the form of loans, may be available for these programs to those who qualify. Travel-study courses may be taken for credit or on an audit basis.

DOMESTIC TRAVEL-STUDY:
Florida
Interdisciplinary Study in Native American Culture and Education (INT 239) is a three-credit service learning/travel study course offered yearly. It is a hybrid course; the online component of the course begins in October with travel to Florida during the January Intersession. Cultural and educational components include: Seminole Reservations and schools, Everglades Swamp Safari, museums, and more.
www.cayuga-cc.edu/academics/opportunities/travel-study/native-american-culture/

INTERNATIONAL TRAVEL-STUDY:
London
Each January during intersession, the College offers several intensive travel-study courses in London. Offerings may include courses in art, business, criminal justice, health care, history, literature, media, philosophy, psychology, sociology, theatre, and other disciplines. Students will visit renowned landmarks as they explore historic and current topics of interest. Lectures and cultural, educational and recreational tours round out each London program.
www.cayuga-cc.edu/academics/opportunities/travel-study/london/

Cayuga Advantage for High School Students

www.cayuga-cc.edu/academics/high-school-programs/cayuga-advantage/
Sarah Yaw, Coordinator
315-294-8513 or yaw@cayuga-cc.edu

Cayuga Advantage is a partnership between Cayuga Community College and local school districts to award college (transcript) credit for college courses taught in secondary school settings to qualified high school students.

Any high school student whose 16th birthday occurs by December 1 of the academic year in which the student wishes to enroll in a Cayuga Advantage course is eligible. Students who are not 16 by December 1st of the current academic year are eligible to participate with parent/guardian signature. Only students who meet specific prerequisite requirements and have been recommended by a teacher or guidance counselor are eligible. If a student wishes to register for a college-level English or mathematics course, the appropriate placement test(s) must be taken and passed. Students who do not meet these requirements are not permitted to enroll in a Cayuga Advantage course.

High school teachers who wish to offer a Cayuga Advantage course should first speak with high school officials and the Cayuga Advantage contact person in their school district to secure their support. An instructor's credentials (resume, transcripts, certificates) should be forwarded to the Cayuga Advantage Coordinator as early as possible for review. Cayuga faculty in the relevant Academic Division will determine competency.

University Center at Cayuga Baccalaureate degrees

www.cayuga-cc.edu/academics/opportunities/baccalaureate/
Emily Cameron, Assistant Director,
Community Education and Workforce Development
315-294-8527, Emily.Cameron@cayuga-cc.edu

To meet the needs of busy working adults, Cayuga Community College forms partnerships with private and SUNY colleges that enable convenient local access to accredited bachelor's and master's degree programs.

EXCELSIOR COLLEGE
www.excelsior.edu/web/partners/cayuga

Cayuga students can earn a bachelor's degree in Accounting, Business, Management Information Systems, or Information Technology through a combination of extended study at Cayuga and online study with Excelsior. Cayuga graduates transfer their associate degree credits, take additional credits with Cayuga (in-class or online) and then complete any remaining degree requirements online with Excelsior College (minimum 12 Excelsior credits). The partnership affords students discounted rates in Excelsior tuition/fees.

KEUKA COLLEGE
www.keuka.edu/admissions/cps

Keuka College's Accelerated Studies for Adults Program (ASAP) on Cayuga Community College's Auburn campus offers BS degrees in Criminal Justice, Nursing, Organizational Management and Social Work, and an MS in Management. These programs are offered periodically when scheduling and student enrollment allows for a cohort to begin. Please check with an ASAP admission counselor for further details. ASAP students complete degree requirements one evening a week, one course at a time.

To be admitted to an ASAP undergraduate program, an applicant should have at least 60 or more transferable credits from an accredited institution and carry a minimum 2.0 (nursing requires at 2.5 GPA) cumulative GPA. Some programs may also require the completion of pre-requisite courses to begin. Graduate applicants must have completed a bachelor's degree from an accredited institution, with a minimum 3.0 cumulative GPA. All applicants must demonstrate an appropriate combination of maturity, experience and motivation.

EMPIRE STATE COLLEGE (SUNY)
Cayuga's Auburn campus, Room M310
www.esc.edu

Students can earn a State University of New York bachelor's degree through Empire State College (ESC) by doing independent study at Cayuga's Auburn campus. Cayuga students can plan an ESC bachelor's degree in coordination with their Cayuga Community College associate's degree.

THE GREATER ROCHESTER COLLABORATIVE (GRC)
www.brockport.edu/academics/grc_social_work/

The GRC is a unique partnership between SUNY College at Brockport and Nazareth College of Rochester. The collaborative enables local access to an affordable Master of Social Work Program (GRC-MSW). Consistent with the mission of both colleges, the MSW program affirms the tradition of promoting empowerment of all groups of people to achieve social justice and equality. Accredited by the Council of Social Work Education (CSWE), the program's focus on community-based practice is unique in its emphasis on leadership in interdisciplinary teamwork across social systems. Students who have achieved a bachelor's degree in social work within the past eight years from a CSWE accredited program are eligible to apply for the advanced standing, 36-credit program. Students holding other bachelor degrees may apply for the admission into the 60-credit program. Both MSW pathways are scheduled as part-time evening study on Cayuga's Auburn campus.

Experiential Education

www.cayuga-cc.edu/academics/opportunities/experiential-learning/
Sheila Myers, Coordinator
315-255-1743 x2122 or Sheila.myers@cayuga-cc.edu

Cayuga Community College provides a variety of educational opportunities that allow students to "learn by doing," connecting classroom content with real-world situations and reflecting on the experience. As a result, students at Cayuga obtain a deeper understanding of their discipline, are more prepared for service and leadership in their careers and communities, and develop critical thinking skills.

A student engaged in experiential educational activities at Cayuga may take part in:

- Internships, field experiences and practicums
- Service Learning
- Entrepreneurship
- Community Projects
- Travel Study and cultural immersion

Course sections that are experiential are designated 'EL' and will appear that way during registration and on student transcripts. An 'EL' designation is just that, a designation. It does not change the ability of the student to transfer the course credit if it is transferable to another institution, nor does it change the course designation.

Besides the opportunity to learn outside the classroom, there are other benefits to taking a course designated as 'EL'. Many local colleges (Keuka, Ithaca, Syracuse University, Hobart and William Smith) are actively encouraging and in some cases requiring their students to participate in some type of experiential education course before they graduate.

Writing Intensive Courses

Richard Bower, WAC Chair, Professor of English
315-294-8464 or bowerr.cayuga-cc.edu

Writing intensive classes are approved by the Writing Across the Curriculum (WAC) Committee, and these sections are designated "WI" at registration and on student transcripts. Students enrolling in them should expect formal projects and informal writing-to-learn assignments throughout the semester. Writing and a process approach to writing are integral to the grading criteria as they support the subject matter and course outcomes. Writing intensive classes are voluntarily offered by faculty and not required by any degree program. Schools to which Cayuga students transfer may have Writing Intensive requirements. "WI" sections from across the disciplines encourage students to practice different kinds of writing for various purposes in order to communicate effectively in the academy, workplace, and citizen roles.

Office of Community Education and Workforce Development

www.cayuga-cc.edu/communityed
Carla M. DeShaw, Executive Dean of Community Education and Workforce Development
315-294-8841/315-593-9400 or Carla.Deshaw@cayuga-cc.edu

Emily Cameron, Assistant Director
315-294-8841 or Emily.Cameron@cayuga-cc.edu

CREDIT-FREE STUDY ON CAMPUS
http://www.cayuga-cc.edu/community/continuing-education/

Each semester, Cayuga Community College offers a variety of credit-free career-training programs and courses for personal enrichment.

CREDIT-FREE STUDY ONLINE
www.ed2go.com/cayuga

Cayuga also offers hundreds of credit-free courses on the Web.

BUSINESS AND INDUSTRY CENTER
Cayuga's Business and Industry Center designs training programs that help employers and employees thrive in an evolving and competitive marketplace. Standard and customized contract training courses, seminars, and other programs are offered at both the Auburn and Fulton campuses, as well as on-site at the workplace.

The Center for Career and Community Education
In July 2015, Cayuga Community College and The Center for Instruction, Technology & Innovation (CiTi) formally partnered to create the Center for Career and Community Education to deliver adult and continuing education programs to Oswego County residents and employers. Through this formal collaboration, the Center for Career and Community Education will maximize each organization's valuable resources, increasing the ability to offer career training programs, leisure learning opportunities, adult literacy classes, youth programs, and customize corporate training. The Center for Career & Community Education focuses on developing adult career pathways offering students multiple opportunities from entry-level, noncredit courses to mid-skill level certificate and degree programs. These programs will be aligned with demand occupations in the Central New York region focusing on our local employers' needs.

Services and Resources

Library

www.cayuga-cc.edu/library
Auburn Campus: 315-294-8596
Fulton Campus: 315-593-9319

The Cayuga Community College Library includes the Norman F. Bourke Memorial Library and the Faculty Resource Center at the Auburn campus and the Library in the Learning Commons at the Fulton campus. Library facilities are open to the public, and borrowing privileges are granted to Cayuga students, staff, and alumni; residents of Cayuga and Oswego counties; and faculty and students of other SUNY colleges.

The Library teaches the campus community to locate, evaluate, and apply information for academic and personal use, through course related instruction and individual research assistance. Our website provides access to chat-based research assistance, available from librarians around the clock, along with research guides that are designed to assist students with course-related projects. Facilities include areas for group and individual work in both active and quiet study spaces, with comfortable seating areas for studying, relaxing, and socializing. Group study rooms are equipped with large flat screen monitors and DVD players. Other technologies include desktop, laptop, and tablet computers, scanners, and high-speed wireless Internet access. Services for online students include access to the library's digital collections, including e-books and journals, access to physical collections through document delivery services and research assistance through online research guides, video tutorials and reference chat services. For more details visit the Online Students Research Guide at **http://libguides.cayuga-cc.edu/online.**

The Library website serves as a gateway to over 120 research databases of full-text print and streaming video resources. Library collections feature more than 87,000 printed and 215,000 e-books, as well as 9,200 media and microform materials. In addition to a wide selection of current academic and popular print periodicals, the Library provides access to over 65,000 full-text journals, magazines, and newspapers. CAYLIB, the online catalog, searches Cayuga's holdings as well as those of other libraries in the SUNY system. Interlibrary loan services allow current students and staff to borrow materials from participating institutions. Visit the Library website at **www.cayuga-cc.edu/library** for additional information about services, policies, and hours of operation.

Center for Academic Success

www.cayuga-cc.edu/cas/
Terry Kupp, Director
315-294-8808
terry.kupp@cayuga-cc.edu

The Center for Academic Success works with students at all levels to enable them to reach their full educational potential. The center also offers resources to help faculty develop alternative approaches to instruction. The center's professional specialists in writing, reading, mathematics, and study skills

are available to address academic deficiencies and sharpen the skills necessary for college success. Peer tutors are trained to assist students in a variety of courses and majors. The tutor training program is recognized and certified by the College Reading and Learning Association. Tutor trainees enroll in the College's one-credit Foundations of Tutoring course to ensure that they can assist their peers consistently and effectively.

The Center for Academic Success provides:

- Opportunities for academic and leadership skill development
- Access to computer workstations and software programs
- Placement testing
- On-campus individual and small-group professional and peer tutoring
- Academic support for online students through NetTutor
- Alternate testing arrangements
- Accommodative services through the Office of Accessibility Resources
- Textbook borrowing service

The Center's Office of Accessibility Resources extends appropriate and reasonable accommodations to every student with a qualified, documented disability. Call or visit and ask for a tour.

The Centers for Student Engagement and Academic Advisement

www.cayuga-cc.edu/students/services/student-engagement/
Auburn Campus: 315-294-8523
FultonCampus: 315-593-9394
studenteng@cayuga-cc.edu

ACADEMIC ADVISING

Academic advisors help students select courses each semester and offer advice on academic matters. Day students are assigned a faculty member as an academic advisor. Evening students may receive advisement from academic advisors during the day and some evening hours. Advisor assignments are posted at the beginning of each semester. Ordinarily, the same advisor serves during the student's stay on campus. However, changes may be arranged through the Centers for Student Engagement and Academic Advisement.

Students who wish to change their major should contact the Centers for Student Engagement and Academic Advisement. Some evening hours are available for evening students.

CAREER SERVICES

Services supporting career planning and job search through Cayuga's Centers for Student Engagement and Academic Advisement include:

- Online job and internship postings for students and alumni
- Annual job and career fairs
- Career counseling, research, and information about employers
- Individual assistance and workshops in résumé writing, interviewing techniques, and networking
- Workshops and presentations

COUNSELING SERVICES

Counseling and other student services are available in the Centers for Student Engagement and Academic Advisement in Auburn and in Fulton. All counseling sessions are confidential.

Counselors can assist with questions and problems including:

- Educational planning to help ensure that students meet degree requirements and prepare for transfer
- Career planning assistance
- Short-term, confidential support and referral services
- Referrals to community agencies that offer psychological, family, and health counseling
- Seminars, credit, and credit-free courses in areas such as college success and career planning
- Transfer counseling

TRANSFER PLANNING

Any student planning to transfer to a four-year college upon completion of associate degree requirements should be aware of the procedures necessary for a smooth transition. Transfer is a relatively easy process. However, students seeking specialized programs should choose their course of study at Cayuga carefully to minimize future difficulties. It is advisable to begin transfer planning during the first or second semester in order to apply for transfer during the third semester.

Consultation is available from the College transfer counselor, the student's academic advisor and/or other faculty members. Students planning to transfer into a teacher education program should consult with the Centers for Student Engagement and Academic Advisement on their plans as soon as possible after registering for classes at Cayuga.

The likelihood of gaining admission to a particular program of study at another institution depends on:

- Choice of appropriate course of study at Cayuga
- Number of applications for a particular major at the senior college
- Grade point average at Cayuga (institutions and/or majors in high demand are more competitive and require a higher grade point average for admission)

SUNY applications are available in the Centers for Student Engagement and Academic Advisement. A student may apply to four SUNY units with one application. A New York State resident who is in the process of obtaining a Cayuga associate's degree and who is transferring directly to a SUNY baccalaureate campus may apply to up to four SUNY units with a waiver of the $50 per-unit application fee. Transcripts of grades must be sent from the Registrar's Office at Cayuga directly to the undergraduate admissions office at the college(s) to which the student is applying. Students who have attended colleges in addition to Cayuga must request that those colleges also send transcripts.

For private or out-of-state colleges, contact the director of admission at the educational institution, and request a catalog and application forms for transfer students. College catalogs are available on campus for student use in the Centers for Student Engagement and Academic Advisement.

Admissions counselors from four-year colleges throughout the state visit the campus periodically to recruit students and assist in the transfer process.

Office of Accessibility Resources

www.cayuga-cc.edu/cas/services/accessibility-resources/
Karen Grella, Accessibility Specialist
karen.grella@cayuga-cc.edu
Auburn Campus: 315-294-8633
Fulton Campus: 315-593-9323

Federal laws, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990 protect qualified individuals with disabilities from discrimination on the basis of disability and guarantee equal opportunity for access to programs and services. Cayuga Community College complies with all applicable federal, state, and local laws and regulations regarding reasonable and appropriate services and accommodations for students with documented disabilities.

Accommodations and services accessed through the Office of Accessibility Resources may include but are not limited to:

- Interpreters
- Note takers
- Time extensions for tests
- Alternative test sites
- Technology to assist reading and writing
- Magnification devices
- Physical accommodations, such as special classroom seating or architectural accessibility

Services and accommodations for all students with disabilities are coordinated through the Office of Accessibility Resources, located within the Center for Academic Success. In order for the College to provide appropriate and timely services and accommodations, students with disabilities must provide current and complete documentation as early as possible.

Students with sponsoring agencies, such as Adult Career and Continuing Education Services-Vocational Rehabilitation (ACCES-VR), Aurora, or the Commission for the Blind and Visually Handicapped (CBVH), should contact the agency several weeks before the start of classes to make sure that all necessary paperwork is completed.

Center for Transitional Studies

Nicole Adsitt, Coordinator, Developmental Studies, 294-8604 or nicole.adsitt@cayuga-cc.edu

The Center for Transitional Studies at Cayuga Community College, in support of the institutional mission to sustain academic excellence within a supportive learning environment, aims to foster seamless educational transitions by planning, developing, and coordinating courses, programs and services to advance college readiness, student engagement, and college completion regardless of academic background, entry point, or place along the higher education continuum. To that end, Cayuga Community College provides a series of courses to help students transition successfully to college level coursework. Students are placed into developmental courses based on their Accuplacer test scores in accordance with placement guidelines. Along with coursework, support services are available to assist students in and out of the classroom.

LEARNING COMMUNITIES

Learning communities are two or more classes linked together by common assignments, goals and themes. They create communities of support and provide opportunities for students to apply their knowledge and skills across disciplines. To be successful in a learning community, you must attend all linked classes and participate in course activities in and out of the classroom, including field trips, study groups, and workshops.

Child Care Center

www.cayuga-cc.edu/students/childcare/
Auburn Campus: 315-294-8603
kimberly.cuipylo@cayuga-cc.edu

The Cayuga Community College Child Care Center is a state licensed, NAEYC and Quality Star NY accredited facility that cares for children ages 6 weeks to 12 years old. The Center serves children of students, staff, and community contingent on space available. The Center is a sight for the Auburn School District's Universal Pre-Kindergarten.

The Center has two locations depending on the age of the child in care. Our infant & toddler programs are located in the former nature center building. Our 3 year old & UPK programs are located in the lower level of the Library Building at Cayuga Community College, 197 Franklin Street, Auburn, NY, 13021. The phone number is 315-294-8603, Fax # 315-255-2117.

The Center offers a subsidy for qualifying students, and accepts all other subsidies provided to our families.

Health Services Office

www.cayuga-cc.edu/students/services/health-services/

Auburn Campus:315-294-8503

The Health Services Office provides the following services:

- First aid and assistance with illness
- Medical referrals as needed and when appropriate
- Detailed information on immunization requirements under State Public Health Law (for students born after 1957 enrolling for 6 or more credit hours; students enrolled in online courses not involving group participation are not required to comply.)
- Processing of insurance claim forms for illness or accidents, medical bills and medicine receipts
- Tuberculosis skin testing for Nursing students
- Free health information brochures
- Notes communicating health absences to instructors when requested by students
- Immunization transcripts
- Health education programs
- Blood pressure screening

Office of Public Safety

www.cayuga-cc.edu/public-safety/
Auburn campus 315-294-8411
Fulton campus 315-593-9377

The Office of Public Safety is responsible for the safety of the campus community and the enforcement of federal, state and local laws, including College rules and regulations, and works closely with other local, County, State, and Federal agencies.

The Advisory Committee on Campus Safety provides upon request all campus crime statistics as reported to the United States Department of Education.

The annual crime statistics report is available at **www.cayuga-cc.edu/public-safety/safety-alerts/**
For a hard copy, contact the Office of Public Safety.

Veteran Services

www.cayuga-cc.edu/students/services/veterans/
Auburn Campus:
Lisa Clark, VA Certifying Official
315-294-8515 or clarkl@cayuga-cc.edu

Fulton Campus:
Jo Ann Harris, VA Certifying Official
315-593-9327 or harrisj@cayuga-cc.edu

Cayuga Community College welcomes veterans as an asset to our College community. We seek to ensure a successful transition from military service to college entry through degree completion.

Each semester, we host a veteran welcome session within orientation to explain the various veteran-specific student support services available through the College and its community partners. A veteran certifying official is available on each campus to assist veterans with their educational benefits compliance issues and refer them to other College resources specific to their needs. Student veterans on either campus are invited to join an SVA-affiliated Veterans Club.

Admission to Cayuga

www.cayuga-cc.edu/admissions

Admissions Office
Bruce Blodgett, Director
1-866-598-8883
admissions@cayuga-cc.edu

Admission to Cayuga is based primarily on high school graduation or GED. Preparation for certain programs will vary. You are strongly encouraged to visit Cayuga and meet with an admissions representative to make informed decisions about your education.

To Enroll in Cayuga

To pursue a degree or certificate at Cayuga.

1. Submit the free Cayuga Community College application (Available upon request from the College, at area high schools, and online at **www.cayuga-cc.edu**). You may also apply through the SUNY application form; however, a fee payable to the State University of New York is required to process your SUNY application.
2. You must request that your official high school transcript be sent to the Admissions Office, wherever you intend to take most of your classes. If you have earned your GED, please forward the official original score report, along with a high school transcript to assist in placement. If you earned college credits while studying in high school, please have the credit-granting institution forward official copies of your transcript to the Registrar's Office in order to transfer those credits to your Cayuga degree. Additional GED transcripts are available from the NYS Department of Education. For information call 518-974-5906, request a mail-in form from Cayuga admissions, or visit the NYSED web site at www.emsc.nysed.gov/ged.
3. If you did not graduate from high school, did not receive a GED, or have an Individualized Education Plan (IEP), or Career Development and Occupational Studies (CDOS), you will not be accepted or matriculated as a full-time student. Nor will you be eligible for Federal Financial Aid. However, you can enroll in no more than 11 credit hours each semester at Cayuga, but you must pay for all related costs. Learn more about your options by speaking with an admissions representative.
4. If you are under age 16 as of June 30 in the academic year (July 1–June 30), you may not enroll full-time or receive financial aid. If you are under 16, in order to take one or more courses on campus or online, you must meet with a Cayuga admissions representative and must get approval from your parent or guardian, guidance counselor, course instructor, and the admissions counselor.

Transfer Students

1. Follow the steps previously detailed on this page to enroll in Cayuga.
2. Forward official college transcripts to the Registrar's Office for placement purposes, and a review of transfer credit.
3. For details on acceptance of transfer credits, please review the College's transfer policy (next page).

Home-Schooled Students

The following guidelines are appropriate for home-schooled students applying for admission to Cayuga. Home-schooled students are welcome to take classes at Cayuga without the documentation listed below. However, certain requirements apply for financial aid consideration and for the awarding of a Cayuga degree or certificate. To earn a degree from Cayuga, documentation of completion of high school or the equivalent is necessary.

The following are the only acceptable forms of documentation:

- An official, final high school transcript from the student's school district indicating graduation (only public schools or registered non-public schools are permitted by law and regulation to issue diplomas); or
- A letter on district letterhead from the relevant district superintendent certifying that the student has documented the satisfactory completion of the equivalent of a four-year high school program of study; or
- A GED achieved by the State Education Department written exam.

Evaluation

Once your file is complete in the Admissions Office, a careful and objective review will determine your academic needs.

Placement Testing

You must take a placement test if you wish to register for an English or mathematics course. However, if you have transferred an acceptable college level English course, or completed four years of English with an average of 80, then you will not be required to take that portion of the placement test. Similarly, if you have transferred an acceptable college level mathematics course, or completed high school calculus, then you will not need to take that portion of the placement test. After you submit your application, Cayuga's Admissions Office will notify you if testing is required and when testing dates are available.

Please note: Acceptance by the College does not guarantee admission into any given degree program. You may be required to take additional preparatory coursework before acceptance into a specific program. Advisement regarding special preparation will be done during the registration process. However you are encouraged to meet with an admissions representative to discuss any special preparation needed.

Students interested in the Honors Study program must meet with an admissions representative; see page 129 for details.

Transfer Policy

The Registrar's office is responsible for evaluating all official college transcripts from students wishing to apply previous college work to current degree or certificate programs.

The process is as follows:

1. Official academic transcripts from post secondary institutions accredited by the New York State Education Department or a regional or national accreditation agency recognized by AACRAO, are evaluated for transfer creidt.
2. Official test scores as recognized by the American Council on Education (ACE) are evaluated for applicable transfer credit.
3. Only courses that have a grade of C- or higher or a numeric value of 1.7 or higher as well as courses meeting the student's program of study requirements will be considered for transfer into Cayuga and will appear as transfer credit on an official academic transcript (no grades from previous colleges will be displayed nor calculated into the student's cumulative grade point average at Cayuga).
4. Credit transferred will be converted to semester hours; and when a partial credit hour results from the conversion it will be rounded down to the nearest whole credit.
5. To receive a certificate or degree from Cayuga Community College, 50% of the required credits must be earned at Cayuga.

Upon review of your transcript(s), credits accepted for transfer into a Cayuga degree program may be viewed in your myCayuga information account, using your C# and password. (Please contact the Help Desk at 315-294-8568 if you have any questions about myCayuga access.) If you wish to challenge this review, you may do so by contacting the Registrar's Office. You may be asked to submit a course description and/or course syllabus for review by the appropriate division chair to determine whether the course is similar in content to a Cayuga course. The division chair will render a decision to the Registrar's Office.

Note: Transfer for Early Childhood or Education course credit will only be granted after transcript review by the Education Coordinator or Division Chair.

Prior Learning Credit

Cayuga Community College ascribes to the philosophy that Prior Learning Assessment (PLA) is a valid format through which students can document college-level learning gained outside a traditional college course. The College has established policies and procedures that enable students to earn academic credit toward associate degree completion through PLA. Each PLA method by which Cayuga accepts credits has an individual detailed policy. Some degree programs may have more stringent requirements and students should consult with an academic advisor prior to pursuing a PLA method for acquiring credit (i.e. Nursing). Cayuga cannot guarantee the transfer of PLA credit to other educational institutions.

CREDIT THROUGH STANDARDIZED EXAMS

Standardized examinations are defined as those exams given by nationally recognized agencies that determine comprehension of subject matter corresponding to a single college course.

Depending on the degree program, these credits may or may not apply regardless of successful completion. The College will not be expected to count credit hours toward fulfillment of degree requirements in areas that would normally not receive credit during an evaluation of transfer credits. (Note that although Cayuga may award credit for published examinations, the College cannot guarantee transfer from Cayuga to another institution for credit by published examination.)

Credit will only be awarded for published examinations recommended by organizations nationally recognized for their expertise in evaluating college-level learning gained outside a traditional college course (e.g. ACE and CAEL). Credit will be awarded if the specified minimum performance levels are met.

Residence Requirement: Credit hours earned through a demonstration of proficiency through published examinations may not be counted toward satisfaction of any existing residence requirements. No candidate for a degree may transfer in more than 32 credit hours. Evaluation of credits appropriate for transfer is done individually. Transferred courses will have no quality point value in computing the student's total quality point average.

ACCEPTABLE PUBLISHED EXAM INFORMATION

• AP (Advanced Placement) Examinations

The AP program is designed to allow high school students to complete college-level courses while still in high school and obtain college credit for those courses. The high school provides the course and assessment examinations for those courses. The assessment exam scores become part of the student's permanent record. Students who have completed an AP course must have the scores sent directly to Cayuga from the College Board Recommendation Service.

College Board Recommendation Service
American Council on Education
One Dupont Circle NW, Suite 250, Washington, DC 20036-1193

Or email a request to: credit@ace.nche.edu

Once the appropriate exam is completed, scores should be sent directly to the Registrar's Office at Cayuga. Students must receive a minimum score of 3 in order to receive college credit toward a specific course.

To ensure that credit through successful completion of exams in the following programs will count toward degree completion, contact the appropriate Division Chair prior to taking the exam. Once the appropriate exam is completed, scores should be sent directly to the Registrar's Office at Cayuga.

Excelsior (Regents) College Examinations
Assessment Unit
7 Columbia Circle, Albany, NY 12203-5159
Telephone: 518-474-3703

The College recognizes a score of 45 as the minimum acceptable score to receive college credit toward a specific course.

CLEP (College Level Examination Program) Examinations
CLEP Program Services Officer
The College Board
45 Columbus Ave., New York, NY 10023-6917

The College recognizes a mean score of 50 on subject exams or a minimum score of 50 on general exams to receive college credit toward a specific course(s).

DANTES (Defense Activity for Nontraditional
Education Support) Examinations
Educational Testing Service
PO Box 6604, Princeton, NJ 08541
Telephone: 800-257-9484
OR
College Board Recommendation Service
American Council on Education
One DuPont Circle NW, Suite 250, Washington, DC 20036-1193
Or email a request to: credit@ace.nche.edu
Students must receive a minimum score of 3 in order to receive college credit toward a specific course.

CREDIT THROUGH CHALLENGE EXAMS

Departmental challenge examinations may be offered for college credit at the discretion of the department. Challenge exams are Cayuga Community College exams a student may take to challenge a specific course. Successful completion of a challenge exam demonstrates the student has met all of the learning outcomes for a particular course. This may include a cumulative final exam as well as a practical exam, if appropriate.

The Division Chairs are the resource for obtaining information regarding the availability of challenge exams. A student who intends to challenge an examination must first consult with the Division Chair.

- Eligibility of candidates to take an examination and the degree of proficiency which is required will be determined by the department. High school seniors must have the approval of their principal or guidance counselor.
- Candidates may not take an examination at a level of subject proficiency lower than courses the candidate has already passed.
- Candidates may not repeat challenge examinations they have failed.
- Candidates may not take department examinations in courses they have failed within the past 5 years at either Cayuga or any other college.
- Students may not repeat any course they have successfully challenged.

If the Division Chair verifies that the student is qualified to take the examination, he/she will assign a faculty member to schedule, administer, and correct the examination. A student is responsible for providing a copy of his/her academic record to the Division Chair. After review of examination or of examination reports, a faculty member, in concert with the Division Chair, will assign a grade. No grade lower than C will be recognized for credit.

Nursing Program

For information on applying to Cayuga's Nursing program, see page 20.

Admission as an International Student

Admissions Office
Bruce Blodgett, Director of Admissions
Primary Designated Student Officer
315-294-8544.

To begin the process,
e-mail admissions@cayuga-cc.edu or visit www.cayuga-cc.edu/admissions/process/international/

Any applicant who is not a U.S. citizen or resident alien is considered an international student. Due to the length of time required to process international admissions credentials, early application is encouraged. The College must receive the necessary requirements (academic, financial and linguistic) by August 1st for the fall semester and by December 1st for the spring semester.

The following information is required for admission:
• Cayuga Community College Admissions Application, Interested applicants may obtain the free Admissions application by visiting **www.cayuga-cc.edu/admissions/process/international/**

ENGLISH PROFICIENCY

Applicants whose native language is not English are required to demonstrate an acceptable level of English language proficiency. At this time, Cayuga Community College does not offer English as a Second Language (ESL) courses.

TOEFL EXAMINATION

The TOEFL examination is required for all applicants in which English is not their primary language. The Institution Code for Cayuga Community College is 2010. Official TOEFL score reports must be submitted to Cayuga Community College.

Minimum TOEFL scores required

- Paper 500
- Computer 175
- Internet 61

The Office of Admissions reserves the right to require a Skype (audio/visual) interview prior to acceptance. The audio component of the interview is to demonstrate English proficiency and the visual component is to confirm identity.

ACADEMIC RECORDS

Cayuga Community College advises students who wish to have their international high school transcripts evaluated or to transfer college credit, to do so by an accredited organization. Please visit the World Education Services at http://www.wes.org. Students may still enroll at the College without the evaluation, but must pass the entrance exam during their placement test.

PHOTO IDENTIFICATION

International Students must provide a copy of an official government-issued form of identification, such as a passport, to confirm identity.

FOREIGN STUDENT FINANCIAL STATEMENT

(Required for F-1 students)
Completion of the Foreign Student Financial Statement form is a required part of the admissions process. This form is available at www.cayuga-cc.edu/admissions/application_process/international.php. The "Foreign Student Financial Statement" should be completed carefully, and must be accompanied by a current notarized bank statement supporting the information reported on the form. NOTE: Cayuga Community College does not offer international scholarships. Students must demonstrate ability to pay for their total educational and living expenses for their entire enrollment at Cayuga.

F-1 visa applicants are required to demonstrate that they have financial resources to cover all educational expenses while attending Cayuga Community College.

IMMUNIZATION REQUIREMENTS

New York State Public Health Law 2165 **requires** all college students born after 1965 and taking 6 credit hours or more during a semester, to provide proof of immunity to measles, mumps, and rubella. The law also requires colleges to distribute information about Meningococcal disease and vaccinations to all students taking 6 credit hours or more, whether they live on or off campus.

F-1 STUDENT VISA

International students who wish to enroll in Cayuga Community College are required to obtain an F-1 visa. If the applicant meets all the necessary requirements, an official letter of acceptance will be mailed to the applicant. The letter of acceptance and the I-20 must be presented to the United States Consulate or Embassy with a valid passport and all other required materials in order to obtain an F-1 student visa, which will allow the student to enter the United States.

Registering for Courses

www.cayuga-cc.edu/students/services/registrar

Office of the Registrar
Auburn Campus: 315-294-8516
Fulton Campus: 315-593-9395
registrar@cayuga-cc.edu

Registering as a New Full-or Part-Time Student

Whether you register as a full-time or part-time student, you must be matriculated into a degree program if you wish to be considered for financial aid. Please keep in mind that if you use the self-registration process, it is imperative that the credits you register for equal the equation for full- or part-time status. To be considered a full-time student you must be registered for a minimum of 12 credits during the semester. If you register for “late start" classes, please check with the Financial Aid Office or Admissions Office to assure it is in line with the requirements for full-time status.

Registering as a Returning Full-Time Student

Returning full-time students register for courses following academic advisement from their assigned advisors. Returning part-time students are encouraged to consult with an advisor (if assigned) or a Student Engagement staff member. View list of academic advisors at **www.cayuga-cc.edu/students/services/student-engagement/advisors-office-location/**. A period of advisement and registration is held each semester to give current students first choice of classes for the next sessions (see academic calendar, page 178-181).

Current Cayuga students may self register online at **www.cayuga-cc.edu/students/services/student-engagement/how-to-self-register/** or make an appointment with an academic advisor.

If you are a former student and wish to pursue a degree program, you must apply for readmission using the readmission form, available on the College’s web site **www.cayuga-cc.edu/students/wp-content/uploads/sites/12/2015/06/re_application_form.pdf** or from the Centers for Student Engagement and Academic Advisement.

Fax it to 315-294-8840 (Auburn) or 315-592-2265 (Fulton), or mail it directly to the Centers for Student Engagement and Academic Advisement in Auburn or Fulton.

Registering as a Returning Part-Time Student

If you were a student in the prior semester and wish to register as a part-time student, you may do so via any one of the following processes. (If you utilized Financial Aid funds, please make sure you have consulted with the Financial Aid Office prior to changing from full-time to part-time status)

1. ***You can self-register through myCayuga if you attended in the prior semester. To do so:***
   - Click the Student Services tab
   - Log into myCayuga
   - Click Registration
   - Click Add or Drop Classes
   - Select Term
   - Click Submit
   - Search for CRN numbers on the Registration Screen:
2. ***At the Registrar's Office.***
3. ***Through the Centers for Student Engagement and Academic Advisement.***
4. ***By mail–send a completed registration form to:***
   Cayuga Community College Registrar's Office
   197 Franklin Street, Auburn NY 13021
5. ***By fax–fax a completed registration form to:***
   315-255-9983

If you have been a student in the past, but not the previous semester, you must apply for readmission using the readmission form, located at **www.cayuga-cc.edu/students/wp-content/uploads/sites/12/2015/06/re_application_form.pdf**

Fax a completed readmission form to:
315-294-8840 (Auburn) or 315-592-2265 (Fulton)

or mail to:
Cayuga Community College (Auburn)
Centers for Student Engagement
and Academic Advisement
197 Franklin Street, Auburn NY 13021
or
Cayuga Community College (Fulton)
Centers for Student Engagement
and Academic Advisement
11 River Glen Drive, Fulton NY 13069

Late Registration

Registration for 15-week courses is permitted no later than five school days after the first day of the semester.

Assistance with Tuition and Fees

Some employers provide tuition assistance for their employees. Inquire through your employer's human resources office. Your tuition may be deferred based on certain financial aid awards, such as TAP and Pell. Under special circumstances, outside agencies and companies providing tuition assistance to their employees may be billed at later dates. Deferred costs will be paid by the first aid disbursed to the student.

If you do not qualify for these types of aid, you must pay tuition and fees by the date shown on your bill.

For federal, state, and Cayuga financial aid programs, see page 26 of this catalog or visit **www.cayuga-cc.edu/financial-aid/.**

Cost of Attendance

http://www.cayuga-cc.edu/students/enrollment/business-office/

Business Office
Auburn Campus: 315-294-8450
Fulton Campus: 315-593-9304
businessoffice@cayuga-cc.edu

Tuition and Fees

Tuition and fees are subject to change at the discretion of the College Board of Trustees. The following are costs for the 2016-17 academic year.

Full-Time Students

(12 Credit Hours / Semester)*

Tuition	
Cayuga County resident	$2,249.50 / semester
Out-of-county NYS resident (with Certificate of Residence)	$2,249.50 / semester
Out-of-state resident	$4,499 / semester
Activity fee	$120 / semester
Accident insurance**	$14 / semester
Technology fee (ALL)	$11 / credit hour

Part-Time Students

(1-11 credit hours / semester)

Tuition	
Cayuga County resident	$187 / credit hour
Out-of-county NYS resident (with Certificate of Residence)	$187 / credit hour
Out-of-state residents	$374 / credit hour
Activity fee (all campus students)	$10/ credit hour
Technology fee	$11 / credit hour
Miscellaneous fees	
Online course fee (for courses conducted fully or partially online)	$10 / credit hour
Wellness fee	$20 /per semester
Books and supplies	vary by course requirements
Returned check fee	$20 / check
Science Lab fee (on-campus science courses with lab)	$25 / per course
General Lab fee (on-campus courses with lab)	$25 / per course
Health Program fee	$62.50 / credit hour
Matriculation fee (one time fee for students accepted into a degree program)	$40
Overload fee (over 19 credits)	$187 / credit hour
Official Transcripts	$10

Summer and Intersession Fees

The technology fee, and online course service fee (if applicable) are charged for summer and intersession.

Fees for Nursing Students

Malpractice Insurance	$28
(NURS 101-102, 214-215, 216-217)	$28 / academic year
Uniforms (for 2 years; purchased separately)	approx. $225
HESI Exit Exam (NURS 216)	$50
Nursing pin (NURS 216)	$50
Health Program fee	$62.50 / credit hour

Fees for OTA Students

Malpractice Insurance	$28/ academic year
Health Program fee	$62.50/ credit hour

Residence Requirement

You are a Cayuga County resident if you have resided in New York State for one year and in Cayuga County for six months immediately preceding the first day of classes. If the Business Office has questions about your address, further proof of residence may be required. For more information, contact the Business Office at 315-294-8450.

You are an out-of-county New York State resident if you have been a New York State resident for one year and have resided in a county other than Cayuga during the six months immediately preceding the start of classes. Your tuition bill will initially show the double tuition rate. Applications for a Certificate of Residence will be available at www.cayuga-cc.edu/payonline. You must obtain a Certificate of Residence and submit it with your payment. The Certificate of Residence must be signed by your County Treasurer and must be dated within 60 days before the first day of classes. A certificate obtained for the fall semester is valid through the following spring and summer sessions, provided enrollment is continuous. If you are an out-of-county resident, you must submit a certificate each academic year. The Certificate of Residence must be received within 14 days of the beginning of the first class.

You are an out-of-state resident if you do not fall in either of the two previous categories, or are residing in the United States on a student visa (F-1, J-1) or a work visa (B-1, B-2), regardless of the length of time you have resided here.

If you are an out-of-county resident of New York State and you do not submit a current Certificate of Residence, or if you are an out-of-state resident, your tuition will remain at the double rate.

Billing for Tuition and Fees

If you are an accepted student, you will be billed before the beginning of the semester. All tuition bills are emailed to the student's Cayuga Community College email account. Information on the student email account is located on the home page of the personal information tab in myCayuga. Please remember that your Cayuga email address is a valid and official method of College communication. Tuition bills can be paid by cash or check (to Cayuga Community College) at the Business Office. Credit card payments must be made online through your myCayuga account. To do so, visit www.cayuga-cc.edu and click on myCayuga Login or visit **www.cayuga-cc.edu/students/enrollment/business-office/pay-your-tuition-bill/**. Failure to pay the bill by the due date will result in de-registration of classes. Delinquent accounts will be forwarded to a collection agency. The collection agency will add a fee of up to 35% and report the account to credit bureaus. The student will be responsible for the balance due and any collection fees associated with the account.

AUTOMATIC BANK DEDUCTION OR CREDIT CARD PAYMENT

You can also pay tuition automatically through the NBS/FACTS tuition management system. Each semester, this system will automatically deduct four equal payments (covering tuition and fees only) from your checking or savings account, or bill a credit card. For details, visit **www.cayuga-cc.edu/students/enrollment/business-office/pay-your-tuition-bill/**, or call the Business Office at 315-294-8450. NBS/FACTS is not available for summer or intersession classes.

Refund Policy

If you find it necessary to withdraw from college, you must complete a withdrawal form in consultation with a counselor, and submit that completed form to the Registrar's Office. Failure to attend class, notifying an office other than the Registrar's Office, or simply informing your instructor, does not constitute an official withdrawal for refund purposes. You may not withdraw from a course or the College by leaving a voice mail message. Tuition refunds are determined by the date the Registrar's Office receives notification. All payments made with a credit card will be refunded to the credit card utilized for the payment.

The following refund schedules are in effect for both credit and non-credit developmental courses, e.g. MATH 070, ENGL 097. School days are Monday through Friday, including holidays. Certain College fees are not refundable. Check with the Business Office for detailed information.

The College does not provide refunds on medical grounds.

Schedule 1 (a)

Courses 15 weeks in length

- Before the 1st day of the semester 100%
- During the 1st week of scheduled classes 75%
- During the 2nd week of scheduled classes 50%
- During the 3rd week of scheduled classes 25%
- After the 3rd week of scheduled classes no refund

Schedule 1 (b)

Courses 10 weeks in length

- Before the 1st scheduled class 100%
- During the 1st week of scheduled classes 50%
- During the 2nd week of scheduled classes 25%
- After the 2nd week of scheduled classes no refund

Schedule 1 (c)

Courses 8 weeks or less in length

- Before the 1st scheduled class 100%
- During the 1st week of scheduled classes 25%
- After the 1st week of scheduled classes no refund

Students receiving federal financial aid, including loans, who withdraw (officially or unofficially) before completing 60% of the semester will be subject to the federal return of Title IV funds calculation. This calculation is based on the percentage of the semester completed. Generally, the student is required to repay a portion of the federal financial aid which has been paid to the student. This calculation is mandated and must be applied regardless of the circumstances for withdrawal.

For credit-free courses (Leisure Learning or Community Education/Workforce courses (BIC, CMSR, SAC, VOC prefixes) a 100% refund will be provided before the start of the course. No refund is available after the course begins.

For more information, contact the Financial Aid Office at 315-294-8546.

Financial Aid

www.cayuga-cc.edu/financial-aid/

Financial Aid Office
Auburn Campus: 315-294-8546
Fulton Campus: 315-593-9309
financialaid@cayuga-cc.edu

Financial aid is available. Cayuga is committed to making attendance possible for students who would otherwise be denied higher education because of inadequate funds.

How to Apply for Financial Aid: FAFSA

To apply for federal assistance a student (and parents of dependent students) must file the Free Application for Federal Student Aid (FAFSA) annually. Students file their FAFSA online at www.fafsa.gov. ***Cayuga's school code is 002861.*** Students (and dependent parents) must obtain a FSA ID (user name and password) that serves as your electronic signature when completing the FAFSA. ***You may obtain your FSA ID at www.fsaid.ed.gov*** at anytime***.*** This FSA ID will be used for many financial aid purposes so keep it safe and in a location you can find when it is needed.

Apply at least four weeks before the start of classes to provide the Financial Aid Office sufficient time to review your application and notify you of your financial aid eligibility. FAFSAs received by April 15 will be considered for all available aid. Applications received after April 15th may only be considered for Pell, TAP, APTS, and student loans.

- If you are a New York State resident, complete the Tuition Assistance Program (TAP) application. If a student did not successfully complete their TAP application at the time a FAFSA was filed, the student will receive an email or postcard from the state processing center outlining application instructions. ***The electronic TAP application can be completed online at www.tapweb.org. Our school code is 2005***
- If you are a part-time student and a New York State resident, you may apply for Aid for Part-time Study by July 1st for the fall semester and by Nov 15th for the spring semester. Applications are available at ***www.cayuga-cc.edu/financial-aid/resources/forms/*** downloadable Forms.

You must reapply for financial aid each academic year. You may log on to your myCayuga self-service student information account to check financial aid requirements, view awards, and accept financial aid.

IRS Data Retrieval Tool

The federal government's IRS Data Retrieval Tool (DRT) is the quickest and easiest way to complete the FAFSA application. Using this tool may diminish the likelihood of being selected for the federal verification process.

Not all applicants will be eligible to utilize the IRS Data Retrieval Process. If you answer "yes" to any statements listed below you may not be able to utilize the IRS DRT:

- You reported a tax filing status of married filing separately.
- You reported you are married and you had a tax filing status of Head of Household,
- You filed an amended tax return.
- You filed a Puerto Rico or foreign tax return.
- You recently filed your taxes. IRS tax forms filed electronically need at least two weeks and tax forms submitted by mail need at least eight weeks for the IRS DRT to be operational.

Students and dependent student's parents who cannot use the IRS DRT process will need to obtain a copy of their IRS Tax Transcript at the IRS website www.irs.gov.

Federal Verification Policies

The verification process compares information reported on your FAFSA with supporting documentation you submit to the financial aid office. The federal government determines which students have been selected to complete the verification process. In addition, Cayuga Community College reserves the right to select any applicant for verification that the College believes may have errors on their application. Conflicting information submitted by the student to the College may trigger verification.

Documents needed to complete the verification process will be listed on your myCayuga self-service information account under financial aid requirements.

Applicants selected for verification may be asked to verify:

- Federal adjusted gross income and U.S. taxes paid
- Household size
- Number of household members enrolled at least half-time
- Supplemental Nutrition Assistance Plan (SNAP)
- Child support paid
- Untaxed income and benefits
- High School completion
- Identity and Statement of Educational Purpose
- Proof of Citizenship
- Selective Service Registration
- Independent Student Status (if under the age of 24)

A student chosen for the federal verification process is not considered to have completed the financial aid application process until the verification process has been successfully completed. Students should realize that Cayuga Community College will not package, credit or disburse any federal financial aid funds until the student has completed the verification process. Students should complete the federal verification process as early as possible to receive their financial aid award. ***Students need to complete the verification process while they are in attendance. The College cannot guarantee financial aid funds to students who complete their verification process after they withdraw or have been withdrawn by the College.***

Amount of Financial Aid Awarded

Financial aid awards are based on need, eligibility, and available funds. First consideration goes to students showing the greatest need. Need is determined by comparing the cost of attending Cayuga with the expected family contribution as calculated by a federal formula. Budgets used for financial aid vary depending upon your status, residency, and program. Standard budgets used for awarding financial aid are available in the Financial Aid Office.

The following is an estimated budget for two semesters for a students in Auburn or Fulton:

- Tuition $4,499
- Fees $544
- Books and Supplies $1,250
- Personal Expenses $1100
- Transportation $1,163
- At Home Living Allowance $2,000
- Students not living at home will be allowed an $8,500 living allowance

An estimated award may not be the final amount awarded. Estimated and actual awards may be adjusted based on additional information, revised regulations, or changed student status. Financial aid will only be paid for courses that are required for your degree.

Special Conditions

The federal government realizes that family's financial circumstances may change since the time they filed their federal income tax return or FAFSA. In these circumstances, the College is allowed to make adjustments to a family's income or assets on their federal aid application. Common examples of granted special conditions are loss of employment, retirement, separation or divorce, loss of one-time benefits, medical/dental expenses that exceed 11% of total income, elementary/secondary tuition costs for dependent children, nursing home costs not covered by insurance, and unusual high child care costs. All students applying for a Special Condition will need to complete the verification requirements before an adjustment to your federal aid application can be considered by our office.

Payment of Financial Aid

In order to receive financial aid funds, a student must be registered, in good academic standing and attending classes. Any changes to the number of credit hours for which you are registered can impact financial aid eligibility for the semester and possible future semesters. Changes in registration may be student initiated by a withdrawal or drop or can be instructor initiated due to lack of class attendance or by the Registrar's Office who reserves the right to cancel courses.

Students are responsible for maintaining themselves as registered students for financial aid purposes.

Only courses eligible to the student's degree program are eligible for financial aid funds. Eligible students receive financial aid funds throughout the semester depending on the student's enrolled/attending classes. The Student Accounts Office begins sending out refunds during the 6th week of classes. Students are expected to pay for their indirect educational related expenses with their own funds until refunds are distributed. Students eligible for a refund will be given bookstore credit two weeks before the start of the semester. Here are some specific disbursement conditions you should be aware of:

PELL GRANT CENSUS DATE

Beginning in the 2016-2017 academic year Cayuga Community College will use a census date to determine Pell Grant eligibility. The Census date refers to the point at which your enrolled credit hours are locked for Pell Grant purposes. The Census date does not apply to other forms of financial aid (loans, institutional grants/scholarships, SEOG, and work-study). Below are the Census Dates by term for the 2016-2017 year.

Fall 2016	Spring 2017	Summer 2017
September 19, 2016	February 7, 2017	June 21, 2017

Credit hours added after the census date cannot be used to increase Pell Grant eligibility, so register early. If you add classes after the census date, your Pell Grant will not increase. Pell Grant funds will be payed out throughout the semester based on the students attending classes.

STUDENT LOANS

Student loans do not pay out until the student has begun attendance in at least six credits. Student loans are paid out in two disbursements. Fall/Spring loans are paid out with one-half in the fall, one-half in spring, Spring Only loans will be paid out in two disbursements over the spring term, and Summer loans are always paid out in two disbursements over the course of the term.

NYS TAP AWARDS
A student must be registered for 12 credits and be enrolled in one 15 week long course. TAP will not pay out until the student has begun attendance in at least 12 credits. Transitional students will need to register for one three credit regular course in their first semester and two 3 credit courses in their second semester.

STUDENT EMPLOYMENT
Student workers are paid every two weeks based on hours worked. Student Employment cannot be used as a deferral on your bill.

INSTITUTIONAL GRANTS/SCHOLARSHIPS
Students will receive their funds based on their enrollment status, but in general, institutional funds are based: Fall/Spring awards are paid out one-half in the fall and one-half in the spring.

Federal Financial Aid

Aid programs are subject to change based on funding and regulations from governing agencies. Applications for most programs and current procedures, recipient selection, award schedules, and responsibilities of recipients are available in the Financial Aid Office.

You may be eligible for federal aid from the Department of Education if you meet the following criteria:

- Are enrolled in a degree or certificate program
- Are a U.S. citizen or an eligible non-citizen
- Have a high school diploma or GED
- Demonstrate satisfactory academic progress
- Are not in default on a Perkins Loan, Stafford Loan, PLUS or SLS Loan at any institution
- Do not owe a refund of any federal financial aid at any institution
- Are registered with Selective Service, if required
- Have not exceeded maximum lifetime eligibility for loans, Pell & TAP.

Federal Pell Grant

This Federal Pell Grant program enables eligible undergraduate students to receive grants based on college costs and your family's expected contribution (determined by factors such as family income and assets, size of family and number of post-secondary students in the family). **Apply using the FAFSA (available online at www.fafsa.gov).** You will receive a Student Aid Report, which you should review and keep for your records. No repayment of Pell Grants is required.

Federal Supplemental Educational Opportunity Grants (FSEOG)

As an undergraduate student, you may be eligible to receive federal supplemental educational opportunity grants. These grants are awarded based on exceptional need and circumstances. Apply through campus aid procedures. No repayment of Federal Supplemental Educational Opportunity grants is required. Apply by completing the FAFSA.

Federal Work-Study

This program, supported through federal and college funds, is available if you are enrolled and can demonstrate financial need. Awards vary according to need and available funds. You may be employed either on- or off-campus with public or nonprofit agencies. Earnings must be used solely for educational purposes. Apply through campus aid procedures and completing the FAFSA. Biweekly payment is made directly to you based on wage and hours worked. Work-study awards cannot be used as a deferral on your bill.

Ford Federal Direct Loan

This loan is available if you need financial assistance and are attending Cayuga at least half-time (six credits or more). First-year students may be eligible to borrow up to a maximum of $3,500 in the subsidized direct loan program. Students who have completed at least 28 credit hours may be eligible to borrow up to a maximum of $4,500 in the subsidized direct loan program. Dependent students may be eligible to borrow an additional $2,000 in the unsubsidized direct loan program. Independent students and dependent students whose parents can not borrow a PLUS loan may be eligible to borrow an additional $6,000 in an unsubsidized direct loan. First time borrowers on or after July 1, 2013 are subject to a period not to exceed 150% of the length of borrower's educational program when determining a student's eligibility for subsidized loans. Under certain conditions, the provision also causes first time borrowers who have exceeded the 150% limit to lose the interest subsidy on their direct subsidized loans.

To apply, you must complet a FAFSA. An origination fee and insurance premium will be deducted from the loan amount. Loans are disbursed in two separate checks over the loan period. Repayment begins six months after termination of study or if you drop below six credits.

Loan applications are available in the Financial Aid Office. First time borrowers at Cayuga Community College must complete a promissory note and entrance counseling online at **www.studentloans.gov**

Federal PLUS Loan

If you are a dependent student and your parents have no adverse credit history, they may be eligible for this program. Annual loan limits are based on cost of college attendance less other financial aid. An origination fee is deducted from the co-payable loan check. Repayment begins within 60 days at a variable interest rate not to exceed 10 percent. Contact the Financial Aid Office to apply.

Veterans' Benefits

The College is approved for full Veterans Administration educational benefits.

Additional Aid Programs

Information on other aid programs is available in the Financial Aid Office. Among these are U.S. Bureau of Indian Affairs Aid to Native Americans, Regents Award for Children of Deceased or Disabled Veterans, Regents Award for Children of Deceased Police Officers and Firemen, and State Aid to Native Americans.

Maintaining Eligibility for Financial Aid

Cayuga Community College is required to have Standards of Satisfactory Academic Progress to comply with the federal and state regulations governing financial aid programs. The standards for federal and state financial aid programs differ so students should be aware of both requirements. Federal and State Standards of Academic Progress includes a qualitative (GPA) and quantitative (earned credit hours) measure in reviewing a student's academic progress. To ensure that a student is making both qualitative and quantitative progress throughout their course of study, the College will assess the student's progress at the end of each semester. Part-time students shall be evaluated by the same standards as full-time students from the date they first matriculate. However, part-time students need only to accrue courses at one-half the rate of full-time students.

Students must complete a first associate degree within the 90 attempted credit hours. A student who is in good academic standing or on an academic plan can apply for a waiver of the 90 credit rule by completing the Loss Eligibility and Waiver Request Form.

The College will attempt to notify you if you fall below the minimum requirements. However, students often do not update their address with the College so it is the student's responsibility to be aware of the standards and their own progress. **Check your current status on your myCayuga account. MyCayuga and your Cayuga email are official means of College communication. Please check these often for any changes to your requirements and account.**

Standards for Federal Aid

The following applies to Pell, Federal Direct Student Loans, PLUS, FSEOG, and College Work/Study.

REQUIRED ACCUMULATED CREDITS

The total accumulated credits and grade point average will be checked after the final grading process for each semester. If deficiencies are found (see following table), they must be made up before a student can qualify for further federal financial aid. Grades of W, I, and Audit are not considered to have a status of passing and do not count toward accumulated credits.

Credits Attempted	*Required % Successfully Completed*	*Min. GPA*
1–11	25%	.75
12–30	50%	1.5
31–45	60%	1.7
46–90	70%	2.0
Over 90	No Federal Aid	

After the warning semester, if you have not regained eligibility, you may complete a Waiver Request in the Financial Aid Office if you can show extenuating circumstances.

REPEATED COURSES

Repeated courses will count as Credits Attempted regardless of the reason for repeating, or the grade received. Students may repeat any course in which they have receive an F grade. If you receive a D or higher grade on the subsequent attempt, the latter grade will be counted in your GPA. The F grade remains in your permanent record but is not counted in your cumulative GPA. You may repeat only once any course in which you receive a D, D- or D+ grade. If you receive a C or higher grade on the subsequent attempt, the latter grade will be counted in your cumulative GPA. If you repeat a course in which you earned an F grade and earn a D, D-, or D+ grade the second time, you may not repeat the course again even if the course being repeated requires a C- or better grade.

SECOND DEGREE

Students pursuing a second degree must complete the Second Degree Waiver Form. Students must apply and be approved for a waiver with the financial aid office before additional financial assistance can be granted. Students will be required to complete an academic plan with the Student Engagement Office as part of the form.

INCOMPLETE COURSES

Incomplete courses do not earn credits and are not considered as attempted courses when calculating earned credit hours. Students are encouraged to complete all incompletes before the beginning of the next semester. If a student completes their courses after Satisfactory Academic Progress has been determined for the next semester, the student may request in writing a re-evaluation of their academic progress.

Notification of Loss of Federal Aid

Check your myCayuga account for your current status.

Method of Appealing Loss of Aid

Students who do not achieve satisfactory academic progress as outlined in the chart above for the first time will be placed on a **Financial Aid Warning** Semester. This can only be granted to students who at the end of a semester were making academic progress in the previous semester enrolled, or who have completed their first semester. The College will reinstate financial aid eligibility for one semester only, without the need to file an appeal. Students can receive only one warning.

Students who fail to make Satisfactory Academic Progress after the warning period lose their aid eligibility for each subsequent academic period until academic progress standards are met. All students have the right to appeal their loss of federal financial aid. The student must complete the Loss Eligibility and Waiver Request Form. These forms are available online or in the financial aid office. Submission of a completed Loss Eligibility and Waiver request form does not guarantee that the request will be approved. Students will be asked in their waiver to (1) explain the reasons the student failed to meet satisfactory academic progress and (2) describe what actions the student plans on taking to ensure their academic success in the next semester. The waiver will be granted only when there is reasonable expectation that the student will meet future satisfactory academic progress requirements.

Students should submit their Loss Eligibility and Waiver Request Form by the deadline date listed on the form. Any forms received after this date are considered late requests and will be considered for the following semester. If a student is granted a financial aid waiver, that student is placed on **Financial Aid Probation (Federal Waiver).**

Students should use their waiver semester to achieve good academic standing. However, the College realizes that is not always possible. Therefore students in their probation status who enroll for at least (6) credits, complete all of their coursework and earn a semester GPA of 2.0 or higher will be be placed under an **Academic Plan**. However, students need to be aware that at any time they cannot achieve their academic degree within the 90 credit limit, they will not be able to remain on an academic plan and will lose their financial aid eligibility.

Students who have lost their federal financial aid and have not been granted a waiver may restore their aid eligibility in one of the following ways:

- Attend Cayuga Community College without financial aid. The financial aid office will review academic progress every semester. When past academic deficiencies have been addressed, aid can be reinstated. Financial aid cannot be retroactively reinstated for semesters the student was not achieving satisfactory academic progress.
- If satisfactory academic progress based on earning the required number of credits has not been achieved, a student could attend another institution and earn credits that could be transferred back to Cayuga.

Return of "Unearned" Title IV Funds

Federal policy assumes that federal financial aid is based on the period of time enrolled. If a student withdraws from the College within the first nine weeks of classes, the federal government does not view the student as having "earned" all of the funds awarded. In that instance, the College is required to return the "unearned" portion of the aid to the government. The College bears potential liability for any federal aid disbursed to students before the ninth week of classes. While Cayuga makes an attempt to disburse aid at the earliest possible time, the College must be fiscally prudent in those disbursements.

Federal regulations govern the return of Title IV funds (Ford Federal Direct Student Loans, Pell, FSEOG) for students who completely withdraw from Cayuga prior to completing 60% of the semester. The percentage of the period that the student remains enrolled is determined by dividing the number of days the student attended by the number of days in the semester. Calendar days are used, but breaks of at least five days are excluded from both the numerator and denominator.

In the case of "aid not earned" in federally funded grants or scholarships, the student is expected to repay the "unearned" portion to the College. Failure to do so will result in the student becoming ineligible to receive further federal financial aid. (This policy is based on 34 CFR, Section 668.22 of Title IV of the Higher Education Act of 1965, as amended.)

WITHDRAWAL DATE

For financial aid purposes, the date of withdrawal from the College is:

- The date the student began the College's withdrawal process or officially notified the College of intent to withdraw, or
- The midpoint of the period if the student leaves without notifying the institution, or
- The student's last date of attendance at a documented academically-related activity, in lieu of any other withdrawal date, or
- If the student leaves without notification because of circumstances beyond their control, a date determined by the College related to those circumstances.

New York State Tuition Assistance Program (TAP)

This state program is available if you are a New York State resident attending college full-time (12 credits or more) in New York State. Part-time students who meet additional requirements may also be eligible.

You must be in Good Academic Standing to continue eligibility. Awards are based on family income. Maximum awards may be reduced based on the New York State budget.

To apply, complete and submit the Free Application for Federal Student Aid (FAFSA) online. You will be directed to the electronic TAP application at the end of the FAFSA process. You will need to list at least one school in New York State and complete the TAP application form provided. **Cayuga's TAP code is 2005.**

If you did not complete a TAP application as part of your online FAFSA, apply for TAP at **www.tapweb.org/totw after receiving a FAFSA acknowledgment. Cayuga's TAP code is 2005.**

Your award notification will be e-mailed to you. You will be paid through the College Business Office once your attendance is certified. A TAP award may only be used to defer tuition costs. No repayment is required.

Aid for Part-Time Study (APTS)

This state program is specifically for New York State residents enrolled in an approved program for at least 3 but fewer than 12 credits. You must have completed 6 credits with a 2.0 at Cayuga in addition to maintaining Good Academic Standing according to Cayuga regulations for state aid. Eligibility is based on income.

You can apply directly to Cayuga using an APTS application available in the Financial Aid Office or online **www.cayuga-cc.edu/financialaid/form.php. Deadline dates are July 1 for fall semester enrollment and November 15 for spring semester enrollment.** If you apply late, your application will be considered only if funds are available. Awards are based on tuition costs, availability of funds and financial need and may not exceed tuition. APTS awards may be used to defer tuition costs only. No repayment is necessary.

Part-Time TAP for Students with Disabilities in NYS

On July 14, 1998 Governor Pataki signed Senate Bill 7072 into law as Chapter 332 of the Laws of 1998. This law provides that students who are disabled, as defined by the 1990 Federal Americans with Disabilities Act, do not have to be in full-time attendance to be eligible for Tuition Assistance Program payments. These students are now eligible for TAP if they are attending part-time, as defined by the Commissioner of Education.

Under prior law, regulation and policy, students with disabilities who attended school part-time because of their disability were eligible for a TAP award payment only after the number of credits they took equaled the number necessary to be considered a full-time student. Chapter 332 provides these students are eligible for a partial TAP award payment in the first term in which they attend on a part-time basis. The law does not require students with disabilities to attend part-time; students with disabilities who attend full-time continue to be eligible, as any other student, for a full TAP award.

Other than full-time enrollment, ADA Part-Time TAP recipients must meet all TAP eligibility requirements. The State will calculate TAP awards as a percentage of the award the ADA student would be eligible to receive if the student were enrolled full time. Students will need to provide documentation of this disability to the appropriate office. For the purposes of application processing, students with disabilities should follow the same procedures as other students applying for a full time TAP by completing the application at **www.hesc.ny.gov.**

TAP Standards to Achieve

The following TAP standards are to be achieved by the end of each semester based on the number of awards the student has received. Credits completed may be actual credits or equivalent credits, passed or failed. Actual credits accumulated must be actual credits passed. GPA is the student's cumulative GPA. Students may receive six semesters of TAP at a community college.

Students who received their first TAP award in fall 2010 and after, and are not defined as 'remedial', need to meet these standards:*

After Award 1 (6 TAP points)	First Semester
Completed	6 credit hours
GPA	1.3 or better
Actual credits accumulated	6 credit hours
After Award 2 (12 TAP points)	Second Semester
Completed	6 credit hours
GPA	1.5 or better
Actual credits accumulated	15 credit hours
After Award 3 (18 TAP points)	Third Semester
Completed	9 credit hours
GPA	1.8 or better
Actual credits accumulated	27 credit hours
After Award 4 (24 TAP points)	Fourth Semester
Completed	9 credit hours
GPA	2.0 or better
Actual credits accumulated	39 credit hours
After Award 5 (30 TAP points)	Fifth Semester
Completed	12 credit hours
GPA	2.0 or better
Actual credits accumulated	51 credit hours
After Award 6 (36 TAP points)	Sixth Semester
Completed	12 credit hours
GPA	2.0 or better
Actual credits accumulated	66 credit hours

*A remedial student is defined as a student taking at least six (6) developmental courses in the first semester of enrollment.

For students who received a first TAP award prior to Fall 2010 and students taking 6 or more developmental courses in the first semester or who are enrolled in a certificate program:

After Award 1 (6 TAP points)	First Semester
Completed	6 credit hours
GPA	0.50 or better
Actual credits accumulated	3 credit hours
After Award 2 (12 TAP points)	Second Semester
Completed	6 credit hours
GPA	0.75 or better
Actual credits accumulated	9 credit hours
After Award 3 (18 TAP points)	Third Semester
Completed	9 credit hours
GPA	1.3 or better
Actual credits accumulated:	18 credit hours
After Award 4 (24 TAP points)	Fourth Semester
Completed	9 credit hours
GPA	2.0 or better
Actual credits accumulated	30 credit hours
After Award 5 (30 TAP points)	Fifth Semester
Completed	12 credit hours
GPA	2.0 or better
Actual credits accumulated	45 credit hours

REPEATED COURSES

New York State regulations mandate that if a student repeats a course in which a passing grade acceptable to the institution has been received previously, the course cannot be included as part of the student's minimum full-time course load for New York State financial aid purposes. However, in the following instances, repeated courses may count toward full-time or part-time study: (1) when a failed course is repeated, and (2) when a grade received is passing at the College, but is not acceptable in a particular student's major field of study.

SECOND DEGREE

TAP is available if students have remaining eligibility. However, the law limits a student to three years of TAP if enrolled in a certificate or Associate Degree program.

INCOMPLETE COURSES

Incomplete courses do not earn credits and are not considered as attempted courses when calculating earned credit hours. Students are encouraged to complete all incompletes before the beginning of the next semester. If a student completes their courses after Satisfactory Academic Progress has been determined for the next semester, the student may request in writing a re-evaluation of their academic progress.

WITHDRAWALS

A grade of "W" does not indicate whether the student passed, failed, or completed all work in a course, and therefore cannot be counted toward meeting either qualitative or quantitative standards. Students who received New York State aid for a semester from which they withdraw or take a leave of absence and do not earn any academic credits are not considered to be meeting the state's pursuit of program requirements and will not be eligible to receive state aid the following semester.

Loss of Good Academic Standing for State Financial Aid

Students who have not fulfilled the chart requirements listed above in a term when they received a state grant or scholarship are not eligible for an award for the next semester. At the end of each semester the financial aid office will notify students who have been determined to be ineligible for state financial aid.

The satisfactory academic progress requirements for state aid may be waived for undue hardship based on: (1) the death of an immediate family member, (2) the personal injury or illness of the student, or (3) other extenuating circumstances. The waiver is intended only to accommodate extraordinary or unusual cases directly related to academic performance and the student's failure to achieve the requirements. Submission of a completed Loss Eligibility and Waiver request form does not guarantee that the request will be approved. Students must complete the Loss Eligibility and Waiver Request Form located online or in the financial aid office. Students will be asked in their waiver to (1) explain the reasons the student failed to meet satisfactory academic progress, and (2) describe what actions the student plans on taking to ensure their academic success in the next semester. A waiver will be granted only when there is reasonable expectation that the student will meet future satisfactory academic progress requirements. According to New York State Law, a student can receive only one waiver for failure to achieve program pursuit.

Students who have lost their state financial aid and have not been granted a waiver can restore their aid eligibility in one of the following ways:

- Attend Cayuga Community College without financial aid. The financial aid office will review academic progress every semester. When past academic deficiencies have been addressed, aid can be reinstated. Financial aid cannot be retroactively reinstated for semesters the student was not achieving satisfactory academic progress.

- If satisfactory academic progress based on earning the required number of credits has not been achieved, a student could attend another institution and earn credits that could be transferred back to Cayuga.
- Students who leave the College for two full semesters can apply for a waiver. Summer is not considered a full semester.
- Students who received TAP funds while not in attendance at Cayuga will be required to submit an official transcript from their prior college.

Transfer Student Eligibility for Federal and State Aid

Transfer students will be considered using slightly different procedures than that of students in continuing status. For example, when a student transfers to Cayuga from another institution, the College will evaluate the student's academic record and determine a certain number of credits it is willing to accept in transfer from the student's previous study. That assessment and the number of awards received by the student will be used to place the student at an appropriate point in the institution's schedule of academic progress. Placement for state aid purposes may be either in accord with the number of payments received or number of credits earned, whichever is more beneficial to the student. Placement for federal aid purposes is in accord with the number of credits earned and accepted by the College.

Student Consumer Rights and Responsibilities

You have the right to ask your institution:

- The names of its accrediting organizations.
- About its programs, instructional, laboratory, and other physical facilities, and faculty.
- What the cost of attending is, and what its policies are on refunds to students who withdraw.
- What financial assistance is available, including information on all federal, state, local, private and institutional financial aid programs.
- What the procedures and deadlines are for submitting applications for each available financial aid program.
- What criteria it uses to select financial aid recipients.
- How it determines financial need. This process includes how costs for tuition and fees, room and board, travel, books and supplies, personal and miscellaneous expenses, etc., are considered in your budget. It also includes what resources (such as parental contribution, other financial aid, your assets, etc.) are considered in the calculation of need.
- How much of financial need, as determined by the institution, has been met.
- How and when you will be paid.
- To explain each type and amount of assistance in your financial aid package.
- If you have a loan, you have the right to know what the interest rate is, the total amount that must be repaid, the length of time you have to repay your loan, when you must start paying it back, and any repayment options, cancellation and deferment provisions that apply. You have the right to a lender of your choice.
- If you are offered a Work-Study job, you have the right to know what kind of job it is, what hours you must work, what your duties will be, what the rate of pay will be, and how and when you will be paid.
- To reconsider your aid package, if you believe a mistake has been made.
- How the school determines whether you are making satisfactory academic progress and what happens if you are not.
- What special facilities and services are available to the handicapped.
- A description of the data compiled by Campus Security via Public Law 101-542: Crime Awareness and Campus Security Act of 1990.

Student Responsibilities

It is your responsibility to:

- Review and consider all information about a school's program before you enroll.
- Pay special attention to your application for student financial aid, complete it accurately and submit it on time to the right place. Errors can delay your receiving financial aid.
- Provide all additional documentation, verification, corrections, and/or new information requested by either the financial aid office or the agency to which you submitted your application.
- Read and understand all forms that you are asked to sign and keep copies of them.
- Accept responsibility for the promissory note and all other agreements that you sign.
- If you have a loan, notify the lender of changes in your name, address, or school status.
- Perform in a satisfactory manner the work that is agreed upon in accepting a College Work-Study job.
- Know and comply with the deadlines for application or reapplication for aid.
- Know and comply with your school's refund procedures.
- Meet satisfactory academic progress requirements.

Scholarships

www.cayuga-cc.edu/giving/scholarships/

Cayuga Community College Foundation
197 Franklin Street, Auburn NY 13021
315-294-8628 or foundation@cayuga-cc.edu

The Cayuga County Community College Foundation is an incorporated not-for-profit organization established to enhance and provide assistance for Cayuga's educational programs. The Foundation receives gifts from corporations and foundations, charitable organizations, alumni and other individual donors. These funds are used for scholarships and awards to students and to support college programs.

Scholarships, Grants, and Awards

The Foundation administers special forms of financial aid and scholarships that are made possible through support from endowment funds and gifts received. Detailed information regarding eligibility, application procedures and award amounts are available from the Financial Aid office, the College Foundation office, and through the College web site. Programs and awards include but are not limited to those listed below.

Scholarships and grants requiring a separate formal application are marked with an asterisk (*).

ACC/CCC Alumni Association*
Awarded to graduating high school seniors planning to attend Cayuga on a full-time basis who are children or grandchildren of an ACC/CCC graduate. Also awarded to returning sophomores attending Cayuga on a full-time basis for a second year, as well as to nontraditional students enrolled full time to upgrade skills or start a new career. Application deadline for each academic year is March 31.

Administrative/Professional Group
Awarded to a full- or part-time student who demonstrates financial need. Primary consideration is given to an independent student with an adjusted gross income between $8,000-$15,000 and no dependents. Student must have completed 12 credit hours and have a minimum 2.8 GPA.

David F. Alexander
Awarded to a returning sophomore who has distinguished himself/herself in the field of English and is studying full time toward an Associate of Arts degree with an emphasis in English and literature.

Louis and Madeleine Alfieri
Awarded to a nursing graduate who excels in the art of nursing as evidenced by the demonstration of kind, caring and compassionate interactions with others. This individual strives to make a humanistic difference within a complex health care environment.

Alfieri & McColgin Nursing Excellence
Awarded to a student entering his/her second year of CCC's nursing program who demonstrates a spirit of inquiry and passion for the pursuit of excellence in the nursing profession.

Alliance Bank
Awarded to a full-time returning sophomore attending the Fulton campus who is a graduate of any Oswego County high school and demonstrates financial need. FAFSA must be on file.

Auburn Players Samuel V. Kennedy III*
Awarded annually to an incoming freshman or a currently enrolled freshman who intends to return to Cayuga for his/her sophomore year. Given to a student studying theatre arts and who meets the eligibility criteria including being a resident of Cayuga County or one of the five adjacent counties. Application deadline for each academic year is May 1.

Auburn Police Union Local 195
Awarded to a returning sophomore residing full-time in Cayuga County and majoring in the Criminal Justice/Police Science curriculum with the intention of a career in law enforcement.

Auburn Steel/Nucor Steel Auburn, Inc.*
Applicants must attend CCC on a full-time basis, be graduating high school seniors with an average of 75 or better, and show evidence of participation in extracurricular activities, community service or part-time work. Preference is given to the sons and daughters of Nucor (formerly Auburn Steel Company) employees; however, all Cayuga County high school graduates who demonstrate financial need above and beyond that met by traditional sources of aid are eligible. Application deadline for each academic year is May 1.

Josephine Aversa-Lynch
Awarded to a female who is a full-time returning sophomore majoring in one of the business disciplines offered by the College. Recipient must be a Cayuga County resident who demonstrates scholarship skills, has a minimum 2.5 GPA, and shows financial need. FAFSA must be on file.

Claudine B. Babiarz
Awarded to a returning student enrolled in the nursing program who demonstrates high ethics and service to others and has financial need. FAFSA must be on file.
Antonino and Matteo Bartolotta Scholarships of Merit
Awarded to six first-year students who have graduated from Cayuga County high schools, have demonstrated academic excellence and personal integrity, and have been accepted for admission by March 15.

Donald P. Blaisdell EAP
Awarded annually to a sophomore who meets the criteria for eligibility and is a child or grandchild of a current employee or retiree of Auburn Correctional Facility; or the child or grandchild of an employee who lost their life during employment at this same facility. Application deadline for each academic year is May 1.

Richard Bunn
Awarded to an incoming student who is a resident of Cayuga County, with preference given to Dana L. West High School graduates. Must be accepted for admission by March 15.

Peter B. Buxbaum
Awarded to a returning sophomore with preference given to a graduate of Auburn High School. She/he must declare an interest in pursuing a liberal arts program cumulating in a B.A. degree, with a major in the humanities or social science; demonstrate academic excellence, particularly in the subject of English; demonstrate an interest in music, the arts and/or student government while attending CCC; and also demonstrate an ability in communications as evidenced by work on the College's student newspaper, contributions to a literary magazine, reporting for a local newspaper and/or other communications activities.

CCC Grants-in-Aid
Awarded to part- or full-time students who demonstrate financial need. Sponsored by Columbian Foundation, D.E. French Foundation, Stanley W. Metcalf Foundation, and the Everett Trust Fund.

Patricia M. Callahan
Awarded first to full-time returning sophomores who demonstrate academic excellence and promise in the field of early childhood education and whose financial resources are such that he/she will not be eligible for significant federal or state financial aid. Awarded secondly to returning sophomores intending to pursue his/her studies in the field of education.

Cayuga Bank
Awarded to students who demonstrate financial need and maintain at least a 2.0 GPA.

Cayuga Bank Employee
Awarded annually to a child or grandchild of a current employee of First Niagara Bank (formerly Cayuga Bank) or of a retiree of First Niagara Bank/Cayuga Bank whose effective date of retirement was on or after January 1, 1993, who has achieved a minimum academic high school average of 75 or a minimum cumulative GPA of 2.5 in college; shows evidence of participation in extra-curricular activities, community service, and/or part-time work; and plans to attend college full-time for at least one year. Application deadline for each academic year is May 1.

Cayuga County Home Bureau
Awarded annually to a returning sophomore with a minimum 2.85 GPA enrolled for at least 9 credit hours and matriculating in the field of humanities, otherwise to a student in biological science with an emphasis in environmental concerns. Application deadline for each academic year is April 15. FAFSA must be on file.

Cayuga County Medical Society
Awarded to a nontraditional returning sophomore enrolled in the nursing program who is in good academic standing and demonstrates financial need. First preference will be given to a resident of Auburn and then to a Cayuga County resident.

Cayuga Presidential
Awarded to students who graduate in the top 20 percent of their high school class based on academic performance. Students must be from school districts affiliated with Cayuga-Onondaga BOCES or Oswego County BOCES who are first-time, full-time enrollees to college (including Cayuga Advantage students). Students can also be graduates from Red Creek Central School District, Tyburn Academy or Union Springs Academy. Student must apply for FASFA and TAP. Recipients must complete at least 12 credits each semester and maintain a 3.0 GPA to remain eligible for a second year.

G. Bruce and Betty Dearing
Awarded to a returning sophomore enrolled for nine or more credits, majoring in humanities or English, who demonstrates a serious commitment to pursuing his/her education with the intent of completing at least a bachelor of arts degree.

Selio and Kathryn DePasquale
Awarded to a returning sophomore who has demonstrated academic excellence and plans to continue studies in the field of physical or engineering science.

George and Helen Dinsmore
Awarded to a full-time, returning sophomore who demonstrates academic ability, good character and is pursuing higher education in the fields of biological and physical sciences, such as biology, medicine, chemistry and physics.

Eastern Shore Associates Insurance
Awarded to a full-time returning sophomore attending the Fulton campus who is pursuing studies in one of the business majors and demonstrates financial need. FAFSA must be on file.

Educational Support Professionals
Awarded to a full-time student who is a College student worker employee with strong work ethics, a pleasant personality, and good people skills.

Weston Eldred
Awarded to a returning (second-year) full-time student at CCC's Auburn Campus who is studying the sciences, with strong preference given to a student demonstrating a passion for the study of chemistry. The student must also be an active member of the Tutor Club, with strong preference given to a student tutoring his or her peers in chemistry.

Empire State Diversity Honors
Awarded to a New York State resident who demonstrates high academic achievement, has financial need, and who enhances the diversity of the student body. FAFSA must be on file.

Claire E. and Frank A. Fama
Awarded to returning sophomores who have demonstrated academic excellence during their freshman year with a preference given in the following order: the field of engineering, mathematics, computer science, computer information science, computer hardware/ software design, mechanical technology and electrical technology.

Joseph S. Fleszar
Awarded to a returning full-time sophomore who has demonstrated significant academic achievement during his/her freshman year in the field of electric or electronic technology or engineering. Application deadline for each academic year is May 1.

Foresman Family
Awarded to an incoming freshman who is an Auburn High School graduate with a minimum 85 high school average and who can demonstrate financial need. FAFSA must be on file.

Leo and Elizabeth Curtin Fox
Awarded first to an employee of any Fox dealership, second to their children or grandchildren, and third to a student with financial need residing in Cayuga or Oswego Counties. Application deadline for each academic year is May 1.

Fulton Savings Bank
Awarded annually to a nontraditional student attending classes at the Fulton campus. Application deadline for each academic year is July 15.

Fulton Savings Bank High School Scholarship
Awarded to one highest ranking graduate from each of the 10 participating high schools (Fulton, Phoenix, Central Square, C. W. Baker, Hannibal, Mexico, Pulaski, Sandy Creek, Altmar-Parish-Williamstown, and Oswego) who will be attending Cayuga full-time.

Anne Drancsak Gallager
Awarded to a returning sophomore nursing student who demonstrates good academic achievement and a serious commitment to the nursing profession.

Mr. and Mrs. Joseph P. Ganey Business Scholarship*
Awarded to a full- or part-time student majoring in Business Administration or Accounting who has completed at least six credit hours in this major, has a minimum GPA of 2.5 and shows evidence of participation in community service and/or work. Application deadline for each academic year is May 1.

Harry W. and Dorothy J. George
Awarded to two incoming freshman and three returning sophomores who have a minimum 2.5 GPA (or minimum 75 high school average), can demonstrate financial need, and are Cayuga County residents. FAFSA must be on file.

Harrington Business
Awarded annually to a continuing sophomore who has demonstrated excellence in his/her first year at Cayuga in one of the business majors.

Ryan L. Hart
Awarded to a full-time student enrolled at the Fulton campus who demonstrates financial need. First preference is given to a resident of Oswego, preferably a graduate of Oswego Academy. Second preference is given to a resident of Fulton, then other Oswego County residents. If possible, the award should assist a student who has had to overcome academic challenges to attend college. Application deadline for each academic year is May 1.

Jack M. Hayden Jr.
Awarded to a returning full-time sophomore who is majoring in the technologies and has demonstrated sound academic progress and financial need.

Holy Family High School Alumni
Awarded to a returning student who demonstrates academic excellence and financial need, with preference given to relatives of Holy Family High School alumni. Otherwise, recipient must be a Cayuga County resident. Application deadline for each academic year is May 1.

Walter W. and Mabel C. Hornburg
Five scholarships awarded to students who demonstrate financial need. Primary consideration will be given to residents of Cayuga County, and special consideration will be given to students who have financial need but may not qualify for state and federal aid.

William J. Humes Jr.
Awarded to two returning sophomores enrolled in a degree program in Accounting, Business Administration, Computer Science, Computer Information Systems or Retail Business Management. Successful candidates will have demonstrated excellence in their first year at Cayuga with a minimum GPA of 3.25.

Kenneth and Margaret Lesch Jahn
Awarded to an entering freshman who is an Auburn High School graduate and has demonstrated outstanding academic success. Must be accepted for admission by March 15.

Honey and Dr. Joseph F. Karpinski Sr.
Awarded to a nontraditional-age student entering the nursing program who demonstrates financial need and is ineligible for other significant sources of financial aid.

Vincent M. Klein
Awarded annually to full-time, incoming freshmen (one female and one male) who are graduates of a Cayuga County school and who plan to major in business.

Sabina Kulakowski
Awarded to a full-time returning sophomore majoring in Early Childhood.

Walter K. Long
Awarded annually to a returning sophomore who demonstrates excellence in and commitment to the study of visual arts.

Verna Bench MacKay
Awarded annually to a female (preferably nontraditional) who is a full-time returning sophomore interested in being a teacher and, if possible, someone inclined to teach English. Recipient must be a Cayuga County resident who demonstrates career determination and has a minimum 3.0 GPA.

Maureen Mahany
Awarded annually to a returning sophomore enrolled in the nursing program who is a strong patient advocate, is quietly supportive of classmates and balances a family with school.

Helen C. Mahon/Zonta Club of Auburn
Awarded to a female student 25 years of age or older who has had to leave or postpone formal education to deal with adult responsibility, is enrolled for at least nine credit hours each semester, is a Cayuga County resident, and demonstrates financial need. Application deadline for each academic year is May 1.

Rocco Malvaso
Awarded to a full-time, registered incoming freshman who demonstrates financial need and is a graduate of Auburn High School. FAFSA must be on file.

Elizabeth Payne McQueeney
Awarded annually to two full- or part-time sophomores enrolled in the nursing program with a 3.0 GPA who demonstrate sensitivity, compassion and affinity to the needs of the elderly.

Dr. Avanelle P. Morgan
Awarded annually to a full-time returning sophomore, preferably a Cayuga County resident, who is a very active volunteer in community and civic organizations, is not necessarily in top ten percent of class but is an achieving student who wishes to pursue further education in science or engineering.

William and Esther Norris
Awarded annually to two full-time enrolled students based on scholastic achievement. Must be accepted for admission by March 15.

Nursing
Awarded to students enrolled in the nursing program who demonstrate financial need. Can be awarded to part-time students. Sponsored by the D.E. French Foundation, and the Stanley W. Metcalf Foundation.

Jessica L. Onderdonk
Awarded to an incoming freshman who has applied to the Studio Art program for full-time study and who demonstrates financial need. Recipient must be a Cayuga County resident with a high school average of at least 80 or a minimum 3.0 GPA.

Ruth Penchoen*
Awarded first to a student attending the London Theatre Program, then to a student attending any of the other international study/travel courses. Deadline for application by essay is September 30 for each academic year.

Joseph W. and Margaret G. Pine
Awarded to a returning student in their second year of the nursing program who demonstrates financial need. Preference will be given to a single parent (age 19-35) who is an Auburn High School graduate, otherwise to a single parent (age 19-35) who is a graduate of any Cayuga County high school. In the event there is no eligible single parent, this award will be given to an Auburn High School graduate, otherwise to any Cayuga County high school graduate. FAFSA must be on file.

Patricia K. Rizzo
Awarded annually to a returning sophomore matriculating in Business Administration or Computer Information Systems who exhibits professional excellence, diligence, and a warm interest in people.

Linda A. Rooker Nursing Scholarship
Awarded annually to a nursing student in good academic standing at the completion of Nursing 102, who demonstrates the art of nursing as evidenced by the use of caring, nurturing and thoughtful behaviors.

St. Alphonsus School*
Awarded to two full-time, returning sophomores who demonstrate academic achievement with a GPA of 2.5 or better and prove evidence of financial need. Preference will be given to relatives of alumni of St. Alphonsus School or its successor schools; otherwise recipients must be residents of Cayuga County. Application deadline for each academic year is May 1.

Scholarship Incentive Awards
Awarded annually to full-time students who have completed 12 credits, achieved a 2.5 GPA, and demonstrated financial need.

Herman and Margaret Schwartz
Awarded primarily to part-time students who demonstrate financial need and, in the second instance, to full-time students who demonstrate financial need.

James Sayre Seymour
Awarded annually to a returning sophomore with a good academic record who demonstrates a serious commitment to the continued study of natural resources and preservation of the environment.

Nataline Dulles Seymour
Awarded annually to a returning sophomore continuing studies in nursing.

Katie M. Socci
Awarded to a returning student in his/her final year of the nursing program with preference given to a single parent who is a Cayuga County high school graduate with a strong preference for an Auburn High School graduate. The recipient should demonstrate Katie's compassion for patients and a wide-ranging interest in multiple settings in which nurses practice their art.

Society of Broadcast Engineers
Awarded in the first instance to two graduating telecommunications majors continuing their education in broadcast engineering at a four-year school. If there are no eligible recipients, the awards may be granted to two returning sophomores who have demonstrated excellence in the telecommunications degree program in their first year. Otherwise awarded to incoming freshmen in the telecommunications degree program.

Sophomore Scholarships
Awarded to full-time sophomores who attended Cayuga as freshmen, demonstrate financial need, and have at least a 3.2 GPA and maintain it for the year.

Ralph W. Standbrook*
Awarded to a full- or part-time student majoring in the Geographic Information Systems A.S. program who has completed at least six credits of GIS courses with a GPA of 3.0 or better. Application deadline for each academic year is May 1.

Anne I. Stapleton
Awarded to an incoming or current student who is a Cayuga County resident, demonstrates financial need, and plans to pursue a career in the health care field or science. Preference will be given to a minority.

John E. Stapleton
Awarded to an incoming or current student who is a Cayuga County resident, demonstrates financial need, and plans to pursue a career in accounting or business. Preference will be given to a minority.

Dr. Thomas D. and Wilhelmina Meagher Stapleton
Awarded to a returning sophomore who has demonstrated exceptional service to fellow students under the direction of the College's Academic Support Center. Must have a minimum 3.2 GPA, take the majority of courses at the Auburn campus, and serve the ASC/Auburn campus in a beneficial capacity. Preference will be given to a Cayuga County resident.

Josephine A. Stephen Nursing
Awarded to a nontraditional student continuing as a sophomore in good standing in the nursing program and demonstrating need. First preference will be given to a resident of Auburn, NY and then to a Cayuga County resident. FAFSA must be on file.

Sylvania-GTE-Philips Employee Association
Awarded to a former employee, or child of former employee, of Sylvania, GTE, or Philips Display Components (Seneca Falls plant) or to a returning sophomore with financial need and a GPA of at least 2.0.

TRW-Auburn Electronics Division
Awarded to a returning Cayuga Community College sophomore who has excelled in his or her first year in Electrical Technology.

Testa Family
Awarded annually to full-time returning sophomores enrolled in the Criminal Justice program who are planning a career in criminal justice. Preference will be given to students with a minimum GPA of 3.0 and who demonstrate community service and volunteerism. Application deadline for each academic year is May 1.

Preston H. Thomas
Awarded to two outstanding returning sophomores enrolled in Mechanical Technology Design/ Drafting.

Thommie Walsh
Awarded to a full-time, returning (second year) student attending CCC's Auburn Campus who is pursuing a concentration in Theatre or Music at CCC. First preference will be given to a graduate of Auburn High School. Application deadline for each academic year is May 1.

Ward Family*
Awarded annually to a full-time returning sophomore who has demonstrated significant academic achievement as a full-time freshman with a minimum 3.0 GPA, and who intends to complete a four-year degree. Candidate must also give evidence of participation in extracurricular activities, community service, or work. Application deadline for each academic year is May 1.

John M. and Marjorie D. Wetherby
Awarded to an incoming freshman enrolled in the nursing program who demonstrates financial need, and will continue through his/her sophomore year if the student is in good standing upon completion of the first year. Preference will be given to a resident of Cayuga County who demonstrates a commitment to the health care field through volunteerism.

Lisa A. McLoud White
Awarded annually to a self-motivated, returning sophomore in the nursing program who is studying at the Auburn Campus. Strong preference is given to a student who has some previous experience in the healthcare field, ideally a Nurse's Aide or LPN. Preference is also given to a single parent.

Thomas James Wiggins Sr.
Awarded to a student entering his or her second year in the nursing program who is an inspiration to others in the program. Preference will be given to a student who has overcome a health issue or other adversity in pursuit of a nursing career.

Dellaphene Winters
Awarded to incoming or returning students enrolled full- or part-time who evidence a strong desire to learn and who show financial need. Recipients must be Cayuga County residents, with preference given to those from the southern end of the county.

Jacqueline Kellogg Wise*
Awarded annually to three children or grandchildren of an employee or retiree of Welch Allyn and affiliated companies who will attend CCC on a full-time basis for two years and maintain a minimum 2.5 GPA. Application deadline for each academic year is May 1.

Rose M. Zambito
Awarded annually to an outstanding returning sophomore majoring in humanities.

Commencement Awards

The College Foundation also administers scholarships and awards which are distributed to graduates at commencement. These are made possible through memorial funds and annual gifts received from individuals, local corporations, foundations and charitable organizations. Detailed descriptions are published annually in the Commencement program.

Student Life

Athletics

www.cayugaspartans.com
315-294-8861

Cayuga's intercollegiate sports teams for men and women are affiliated with the National Junior College Athletic Association (NJCAA) and compete in Region III, Mid-State Athletic Conference (MSAC) at the Division III level. Regional competition can lead to national qualification, depending on post season success. The College fields the following men's and women's intercollegiate teams:

WOMEN'S
Basketball, bowling, golf, soccer, softball and volleyball

MEN'S
Basketball, bowling, golf and soccer

All students who wish to take part in any intercollegiate athletic program must have a current sports physical on file with the College's Health Services Office prior to participating in practice or game competition.

Facilities include Spartan Hall, Fitness Center, recreational Nature Trail, auxiliary gym space, team locker rooms, athletic training room, equipment room and racquetball courts. The College expects to move forward with its plans for the construction of the Dr. Joseph F. and Honey Karpinski Athletic Stadium Complex on campus to serve as home for all outdoor sport activities.

Auburn/Cayuga Community College Alumni Association

www.cayuga-cc.edu/alumni
Auburn Campus suite M238
315-294-8524 or alumni@cayuga-cc.edu

The alumni association was founded in 1959 to foster continuing interest in the welfare and development of the College. Its mission is "to promote and enhance relations among the alumni, the College community, and the community at large."

The ACC/CCC Alumni Association currently has more than 25,000 members. Each graduate of Cayuga automatically becomes a member of the association. There are no dues and you don't need to sign up.

The ACC/CCC Alumni Association activities include:
- The Spartan newsletter and Cayuga Alumni Voices eMagazine
- Organized and escorted day and weekend trips to various destinations
- Campus & Community Involvement
- Scholarships and Book Grants for students
- Social Media with Facebook and Linked in
- Alumni-branded merchandise
- Alumni, Distinguished Service and Honorary Alumni Awards

Bookstore

www.cayuga-cc.bncollege
Auburn campus: 315-294-8690
Fulton campus: 315-592-7023 / 315-593-1104

Barnes & Noble operates bookstores at the Auburn and Fulton campuses. The Auburn campus bookstore is part of the Student Center, located in the lower level of Spartan Hall. Fulton's bookstore is located within the Fulton Campus complex. Both outlets stock new and used textbooks and other materials required for coursework. The bookstore also sells general reading titles, office and art supplies, College logowear and gift items, software packages at academic prices to students, faculty, and staff, and a variety of general merchandise. The bookstore is open to the public.

Clubs and Organizations

www.cayuga-cc.edu/students/student-life/clubs/
Auburn Campus: 315-294-8523
FultonCampus: 315-593-9394
studenteng@cayuga-cc.edu

New clubs are continually formed in Auburn and Fulton in response to student interests. The Student Handbook contains detailed information on the Student Activities Board, Student Government Organization (SGO), and current clubs. Information is also available from SGO members, the Student Activities Office in the Centers for Student Engagement and Academic Advisement, or in the Student Center at the Fulton campus.

CHORUS
The College Chorus is an opportunity for students interested in performing vocal and choral music. The chorus presents annual fall and spring concerts. Participation carries one academic credit.

THE COLLEGIAN
The campus newspaper offers students hands-on experience in news, feature, sports, column, and headline writing, photography, layout, advertising, and business.

HARLEQUIN PRODUCTIONS (THEATRE)
Harlequin Productions is the award winning student group that produces live theatre on campus. Students are the actors and tech staff with professional designers and directors brought in to guide them. Standards are high as Harlequin Productions specializes in new works, providing students the opportunity to create pieces of theatre that have never been seen before while having fun in a positive educational environment. The works tend to be edgy and provocative. Typically, one play per semester is produced, running for 6 performances over two weekends. This student group is open to all students, with or without experience.

RADIO WDWN
WDWN (WIN-89 FM) is a 3,000-watt stereo broadcast facility, coordinated by the telecommunications program and operated by students. Broadcasting and programming opportunities are open to telecommunication majors and all interested students.

STUDENT ACTIVITIES BOARD (SAB)
The Student Activities Board sponsors a variety of cocurricular activities and events for the College and local community. Arts and cultural programs feature noted artists, comedians, musicians, and other performers.

STUDENT GOVERNMENT ORGANIZATION (SGO)
Cayuga's Student Government Organization represents the student body, oversees club activities, and guarantees that students' voices are heard within the College community.

Student Housing

www.cayuga-cc.edu/students/student-life/housing/

Students are responsible for arranging their own housing. A variety of off-campus housing options are available including Lattimore Hall, a privately-owned and managed apartment building in downtown Auburn. The Centers for Student Engagement and Academic Advisement maintains a list of off-campus housing available each semester. The list includes apartments and room rentals offered by Auburn area landlords for college students, and is posted at **www.cayuga-cc.edu/students/student-life/housing/off-campus-housing/.** While the College assumes no responsibility for inspecting, approving, or supervising off-campus housing, each landlord listed must sign a non-discrimination statement certifying that there will be no discrimination on the basis of race, gender, religion, national origin, age, disabilities or marital status.

Students are encouraged to begin searching for housing early in the summer before starting at Cayuga.

Contracts with local bus services in Cayuga and Oswego Counties provide free bus transportation to full-time Cayuga students with proper identification.

LATTIMORE HALL

www.lattimorehall.com
81 Genesee Street, Auburn, N.Y. 13021
315-258-3800 or info@lattimorehall.com

Lattimore Hall, a privately-owned and managed apartment building in downtown Auburn, was designed to offer housing specifically for Cayuga students from out of the area. With a capacity of approximately 90 students and an on-site professional staff, Lattimore Hall offers 3-, 4-, and 6-bedroom furnished suites with phone, cable, and internet access.

Located in the heart of historic Auburn, New York, Lattimore Hall is within walking distance from museums, churches, shops, restaurants, a large Wegman's supermarket & pharmacy and the YMCA. Free Centro bus service transports students between the Auburn campus and Lattimore Hall.

Orientation

http://www.cayuga-cc.edu/orientation/

The College hosts an Orientation program at both campuses to provide information about campus policies, programs, and services. Students who attend Orientation meet faculty, staff, and fellow students, and gain useful insight that can help in their academic pursuits. Students also receive a copy of the College's Student Handbook, a valuable reference on College policies and procedures as outlined by the administration. See Academic Calendar (pages 174-177) for Orientation dates.

Academic Standards and Policies

Rules and Regulations

As an enrolled Cayuga student, you are expected to follow College rules and regulations as well as all local, state and federal laws. Incidents of misconduct and violation of the Student Code of Conduct are reported to the Director of the Centers for Student Engagement and Academic Advisement, convener of the Faculty/ Student Judicial Review Committee. If you are found in violation, you may be subject to disciplinary action ranging from admonition to expulsion.

Student Code of Conduct and Student Handbook

Student conduct procedures, the student code of conduct, and a complete list of possible sanctions are detailed in the student handbook. Additionally, a separate handbook (Right to Know) relating to Cayuga's drug and alcohol policy, prevention of sexual harassment, and campus safety and crime statistics is distributed annually to each student.

Besides being familiar with the Student Code of Conduct, each student should be aware of the following rules:

A. According to New York State law, firearms are not permitted on campus or in any College building. Also, any instrument to be used as a weapon and explosives of any kind are not permitted on campus.
B. Use, distribution or possession of illegal substances is not permitted on campus. Such use, distribution or possession is a violation of college regulations and is subject to action by the College.
C. The use, possession and distribution of alcoholic beverages is not permitted on any and all locations operated by Cayuga Community College for employees, students, and its visitors, except for an occasion expressly sponsored by the President's Office. The policy regarding such events is available in the Student Handbook.
D. Cayuga Community College is a tobacco-free campus. Tobacco use of any kind is prohibited anywhere on campus or college property.

The College may initiate disciplinary proceedings for off-campus incidents involving violations of the Student Code of Conduct when the violation is committed while participating in a College sanctioned or sponsored activity, the violation adversely affects the educational or service function of the college, or the violation adversely affects the individual's suitability as a member of the College community. In determining whether or not to exercise off-campus jurisdiction in such cases, the Director of the Centers for Student Engagement and Academic Advisement will consider the seriousness of the alleged offense, the risk of harm involved, and/or whether the off-campus conduct is part of a series of actions which occurred both on and off campus.

Late Registration

Students may change their schedules during the drop/ add late registration period. However, the missed classes that occurred before the student added the course may, at the discretion of the instructor, count as absences in the student's attendance record for that course.

Dropping and Adding Courses

Students may drop and add courses through their MyCayuga account until the day before a class begins. If you want to add or drop a course after the course has started, you must do so through the Registrar's Office or by seeing your advisor. During the drop and add period, students can make adjustments to their schedule without receiving a withdrawal (W) on their academic record. Please refer to the Academic Calendar for detailed registration deadlines.

Waitlist

Students can be added to a course waitlist if the section is full. Students are notified if a seat becomes available via their college email (or private email if a college email hasn't been assigned yet) and have twenty-four hours to register for the course. After the twenty-four hour time period has passed, the student is removed from the waitlist and the next student on the waitlist is notified of the availability. The waitlist process expires the day a course begins and students should work with their advisors during the drop/add period if they were unable to complete their schedule of classes.

Withdrawal from the College

A student wishing to withdraw from the college must complete an Official Withdrawal Form available at the Centers for Student Engagement and Academic Advisement or the college website. The completed form must be returned to the Registrar's Office. If this procedure isn't followed, your withdrawal will not be official and you will not qualify for a refund if the withdrawal date is during the refund period for that particular semester. A withdrawal after the refund period has ended will result in a "W" grade for each course in which you were enrolled.

Course Withdrawal Policy

Students may withdraw from a course up until the 60% mark of the course and receive a "W" on their transcript. The student must initiate the withdrawal by completing a Schedule Adjustment Form available in the Registrar's Office or the college website. The form must be returned before the close of business on the date of the 60% mark of the course. Please refer to the College Calendar for the specific date of the last day for students to initiate a withdrawal from a course for each term.

Documented Late Course Withdrawal Policy

After the 60% mark of the semester, a student may not withdraw from a course unless, in the judgment of the course instructor, he or she has a serious, documented reason for doing so.
The student must have a serious reason to seek course withdrawal after the 60% mark of the course (such as illness or death in the family). He or she should discuss course withdrawal with the course instructor. The student must provide the course instructor documentation in the form of a Documented Late Course Withdrawal Form, available from the Registrar's Office or the college website, along with supporting documentation, such as a health care provider's verification of student illness (physical or psychological) or of major illness of an immediate family member; copy of obituary, listing relationship of deceased to student; letter from student's employer; or written statement explaining extenuating circumstances for review. This form and documentation must be submitted to the course instructor for review. If in the judgment of the instructor the student's request for late withdrawal is valid, the instructor at his or her discretion may then issue the student a "W" for the course. The faculty instructor will submit the Documented Late Course Withdrawal Form and the appropriate documentation to the Registrar's Office by the close of business on the last day of class where it will be kept on file. Please refer to the College Calendar for the specific date of the last day of classes for each term.

Late withdrawals can have serious impacts on the financial aid of students and the finances of the institution. Therefore the use of late withdrawals should be limited. Students are cautioned to speak with the Financial Aid Office before withdrawing from a course, as withdrawing may compromise their financial aid.

Plagiarism Policy

Withdrawal Resulting in a Grade of "F"

In cases of plagiarism or academic dishonesty, an instructor may apply a failing grade which preempts a student's right to withdraw from the course. To apply the failing grade, the instructor should have indicated the potential consequence of plagiarism or academic dishonesty on the course outline, defined or given examples of same on the course outline, and ensured distribution of the course outline to all students in the class. There must be solid evidence of the alleged plagiarism or academic dishonesty if a failing grade is to be assigned under these circumstances. The decision to assign a failing grade under these circumstances must be made in consultation with the appropriate division chair. Students may challenge such a grade only through the academic grievance process.

Cancellation of Classes

If the registration in any course is insufficient, the course may be canceled at the discretion of the Provost & Vice President for Academic Affairs.

Individual / Independent Study

Under special circumstances it is possible to complete a course through individual or independent study. Details are available from division chairs.

Auditing Courses

The intention to register for an audit or change from credit status to audit status must be submitted to the Registrar's Office by the 10th class day of a 15-week course. Credit is not granted for audited courses.

To audit a course, the following guidelines apply:

- Students who wish to audit a course after late registration must have the instructor's permission.
- There are no requirements for audit other than attendance.
- Students must pay regular tuition for an audit.
- On a space-available basis, senior citizens (age 60 or older) with valid identification may audit credit courses at no tuition charge: certain fees may apply.

Definition of Full-Time Status

Fall, spring or summer: Full-time status is defined as 12 or more credit hours of study per semester. Permission of the division chair is required to exceed 19 credit hours per semester.
January intersession: Permission to exceed 6 credit hours is required from the division chair.

A credit hour is equivalent to 750 minutes of instruction. A laboratory credit hour is equivalent to 1,500 to 2,250 minutes of instruction.

Attendance Policy

Students are expected to attend each meeting of their registered courses. Experience demonstrates that regular attendance enhances academic success. However, the College recognizes that there are times when students may miss an occasional class, and has instituted a policy that takes this into consideration.

Student absences cannot exceed 20% of the course. There are NO EXCUSED ABSENCES under this policy. All absences are counted, regardless of the reason for the absence, including but not limited to field trips, illness, athletic trips, court appearances, and other personal reasons.

Students are responsible for keeping track of the number of their absences. Instructors are not required to notify a student orally or in writing if the student has excessive absences.

Students who do not meet the required attendance policy for a course will receive a grade of F for the course, unless the student withdraws from the course by the 60% mark of the course. After the 60% mark of the course if, in the judgment of the course instructor, a student has stopped attending class for valid reasons, the Documented Course Withdrawal Policy may apply.

Participation in classroom activities including lectures, films, guest speakers, class discussions, and group activities all contribute to student success in college level coursework. Instructors may include class participation as one component of evaluation and grading. Therefore, lack of attendance may influence your ability to do well in a course where participation is highly valued by the instructor.

The College's detailed attendance policy is included in the Student Handbook. It is your responsibility to be aware of the attendance policy and your individual instructors' policies on late or missing work. Failure to comply with the College attendance policy may result in dismissal from a course for poor attendance. If you are unable to attend classes on certain days because of religious beliefs, the following policy (Section 224-a of the Education Law as amended) applies:

- You shall not be expelled from or be refused admission to an institution of higher education for the reason that you are unable, because of your religious beliefs, to attend classes or to participate in any examination, study or work requirements on a particular day or days.
- If you are unable, because of your religious beliefs, to attend classes on a particular day or days you shall, because of such absence on the particular day or days, be excused from any examination, study or work requirements.
- It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to students who are absent from school, because of their religious beliefs, an equivalent opportunity to make up any examination, study or work requirements which they 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.
- If classes, examinations, study, or work requirements are held on Friday after 4:00 p.m. or on Saturday, similar or makeup classes, examinations, study, or work requirements shall be made available on other days where it is possible and practicable to do so. No special fees shall be charged for these classes, examinations, study, or work requirements held on other days.
- In effectuating the provisions of this section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to you because of your availing yourself of the provisions of this section.
- If you are aggrieved by the alleged failure of any faculty or administrative official to comply in good faith with the provisions of this section, you 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 your rights under this section.

As used in this section, the term institution of higher education shall mean schools under the control of the board of trustees of the State University of New York or of the board of higher education of the City of New York or any community college.

Attendance Policy in Online Courses

Attendance in an online course is defined as an active post or submission within the course including discussions, written assignments, and tests. This standard will be used to determine all attendance issues, including but not limited to reports of never having attended, reports of last date of attendance, and final grades of F in the course, due to lack of attendance.

IN A COURSE THAT MEETS FOR THE FULL SEMESTER,

If the class or lab meets	*Absences cannot exceed*
Once weekly	3
Twice weekly	6
Three times weekly	9
Four times weekly	12
Five times weekly	15

A COURSE THAT MEETS FOR FIVE WEEKS,

If the class or lab meets:	*Absences cannot exceed*
Once weekly	1
Twice weekly	2
Three times weekly	3
Four times weekly	4
Five times weekly	5

Once the student has exceeded these total absences, the student will receive an F for the course.

Students enrolled in a course that meets for other than the full semester or 5 week sessions will receive an F for the course after they exceed 20% of the scheduled class meetings.

A stricter alternative attendance policy may be applied within a curriculum, with the approval of the division and Provost and Vice President for Academic Affairs. An instructor will notify students in writing when it is necessary to apply a more restrictive and approved policy due to educational requirements.

FERPA Policy

www.cayuga-cc.edu/students/services/registrar/ferpa/

The purpose of the Family Educational Rights and Privacy Act (FERPA) is to afford certain rights to students concerning their educational records. The primary rights afforded are the right to inspect and review the educational records, the right to seek to have the records amended and the right to have some control over the disclosure of information from the records. Cayuga's FERPA policy can be found on the College's web page.

Lateness and Leaving Class Early

If a student is late for class or leaves before the class is over, or if a student leaves class and returns during the class, the instructor at his or her discretion may consider that student absent. Students are required to wait a minimum of ten minutes before leaving a class if an instructor is not present at the beginning of a class period, unless instructed otherwise.

Classroom Visits

Cayuga students other than those registered for a scheduled classroom course are permitted to visit that classroom under the following conditions.

• With the instructor's approval, a Cayuga student who is registered in another section of a course may attend the alternative section for up to three class meetings. Attending more than three class meetings will require the written approval of the instructor and the appropriate Division Chair.

• With the instructor's approval, a registered Cayuga student who is not enrolled in a particular classroom course may attend one class meeting of the course. Any additional visits will require the written approval of the instructor and appropriate Division Chair.

Academic Progress

GRADING SYSTEM

Final grades are calculated at the end of the semester. Using your myCayuga ID and password, you may view your grades online through the myCayuga self-service information system.

Grades / Quality Points per credit hour

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 are not calculated in the index:

INC	Incomplete (details follow)
W	Withdrawal from course without grade
R	Repeated D or F grade
IR	Illegal repeated grade
AUD	Audit

INCOMPLETE GRADE

An Incomplete is a temporary grade given when a student is unable to complete a small part of the course requirements or is unable to take the final examination due to illness or other justifiable circumstances. A student requesting an Incomplete must fill out a Request for Incomplete Form, available in the Registrar's Office or the college website, listing the valid reason for not completing all requirements and must agree to the terms and conditions set by the instructor to complete the course. The instructor must submit the form to the Registrar's Office by the close of business on the last day of class where it will be kept on file. Please note: if a student has received a grade of Incomplete at the end of the semester, it will not be possible to change that grade to a W.

All coursework must be completed by the 20% mark of the following 15-week semester; otherwise the incomplete will be changed to F, or the default grade provided by the instructor. In rare cases for certain courses where appropriate (for example, internships that are not offered at the beginning of a semester), an additional extension may be given until the end of the following 15 week semester upon the instructor's approval. Please note that an F grade may result in academic probation or academic dismissal.

Incomplete grade for	***must be completed by***
Fall semester	20% mark of the Spring semester
Spring semester	20% mark of the Fall semester
Intersession	20% mark of the Spring semester
Summer session	20% mark of the Fall semester

Students are advised to consult the Financial Aid Office if they are seeking an incomplete. Incompletes may have implications for financial aid.

MIDTERM GRADES

If your instructors choose to report D and F grades at midterm, you will be notified via your College e-mail and a letter sent by mail. This grade is for guidance purposes only and is not entered on your permanent record.

NON-CREDIT COURSE GRADES

Grades for the following non-credit courses (ENGL 049, ENGL 097, ENGL 098, MATH 070, and MATH 099) are calculated in a student's grade point average (GPA).

ACADEMIC WARNING

If your grade point index is below 2.0 but above the probation limits listed in the following section, you are on academic warning and are not in good academic standing. This appears only on your grade report.

ACADEMIC PROBATION

You will be placed on academic probation and limited to a 12-15 credit load if the following criteria apply:

GPA Credits	***Grade Point Average***
12-15	At least 1.00 and less than 1.50
16-30	At least 1.50 and less than 1.70
31-45	At least 1.70 and less than 1.90
46 or more	At least 1.90 and less than 2.00

ACADEMIC DISMISSAL

A cumulative average of 2.0 (C) is one of the requirements for the associate degree or certificate. Your progress toward this goal is reviewed when you have attempted 6 or more credits; subsequent reviews take place at the end of each succeeding grading period. If you are within the following grade-point criteria you will be dismissed from the College:

Total Actual or Equivalent

GPA Credits	***Grade Point Average***
6-11	Less than .75
12-15	Less than 1.00
16-30	Less than 1.50
31-45	Less than 1.70
46 or more	Less than 1.90

Note: The College maintains eligibility rules for members of athletic teams and holders of major offices in various clubs.

You are classified as a second-year student if all entrance deficiencies have been removed, all freshman requirements have been passed, and at least 28 credits have been earned.

You cannot enroll in a course unless all prerequisites have been satisfied.

ACADEMIC REINSTATEMENT
If you have been academically dismissed from the College, you may file a written appeal for reinstatement with the Academic Standing Committee c/o the vice president of academic affairs. Reinstatement applications are available in the Centers for Student Engagement and Academic Advisement and the academic and student affairs office. Appeals should include any extenuating circumstances hindering your academic progress. If needed, you should contact counselors in the Centers for Student Engagement and Academic Advisement for further information or assistance. You will be notified by letter of the decision rendered by the committee.

REPEATING A COURSE
You may repeat any course in which you receive an F grade. If you receive a D or higher grade on the subsequent attempt, the latter grade will be counted in your grade point average. The F grade remains in your permanent record but is not included in your GPA.

You may repeat only once any course in which you receive a D, D- or D+ grade. If you receive a C or higher grade on the subsequent attempt, the latter grade will be counted in your grade point average. The D- or D+ grade will remain in your permanent record but will not be counted in determining your Grade Point Average. If on the subsequent attempt you receive a D+, D, D- or F grade, both grades will remain in your permanent record but only the original D or D+ will be counted in determining your grade point average.

If you repeat a course in which you earned an F grade and earn a D, D- or D+ grade the second time, you may not repeat the course again and you may be unable to complete your degree or certificate program if the course being repeated requires a C- or better grade. If you register to repeat a course in which you received a D, D- or D+ grade and receive state financial aid, you may not count the credits of the course toward full-time eligibility status.

CHANGE OF MAJOR
If you wish to change your major or request advisement, contact the Centers for Student Engagement and Academic Advisement.

MULTIPLE DEGREES
If you are interested in receiving more than one degree, you must meet with a Academic Advisor to complete a multiple degree contract. No second or third degree is granted without an approved contract on file in the Registrar's Office. Not all multiple degree combinations are allowed, so contact the Centers for Student Engagement and Academic Advisement as early as possible. Note: A certificate will not be awarded if you have completed degree requirements in the same field.

ACADEMIC TRANSCRIPTS
Students may request official transcripts from their MyCayuga account. A transcript will not be released if there is a financial hold on the student's record.

Academic Honors

DEAN'S LIST
Full-time students who achieve a 3.5 or higher grade point average for an academic term will merit the distinction of being on the Dean's List. Recognition is given to those who qualify at the end of each semester, and the designation "Dean's List" will appear on your grade report.

Part-time students who have completed at least 12 credits at Cayuga and accumulated 6 or more credits with a 3.5 or higher grade point average during the semester just completed will be named to the Part-Time Student Dean's List. This honor will show on your grade report.

Note: Developmental courses bear no credit. A developmental course carries equivalent credits which are calculated into full-time status for purposes of attendance and financial aid eligibility. A student registered for one or more developmental courses might not qualify for the Dean's List.

Honor Roll

Full-time students whose grade point average is 3.0 to 3.49 are eligible for the Honor Roll.

Part-time students who have accumulated at least 12 credits at Cayuga and were enrolled for 6 or more credits and achieved at least a 3.0 but less than a 3.5 grade point average during the semester just completed will be named to the Part-Time Student Honor Roll. This honor will be included on your grade report.

Note: Developmental courses bear no credit. A developmental course carries equivalent credits which are calculated into full-time status for purposes of attendance and financial aid eligibility. A student registered for one or more developmental courses might not qualify for the Honor Roll.

PHI THETA KAPPA
Phi Theta Kappa (PTK), the International Honor Society of Two-Year Colleges, recognizes high scholastic achievement of Cayuga students. Membership eligibility is based upon a GPA of 3.5 and community service. Invitations are extended to students each semester and an induction ceremony is held each spring. Visit www.ptk.org.

GRADUATION HONORS
The following honors are based on your grade point average:

	Grade Point
Summa cum Laude	3.800
Magna cum Laude	3.500
Cum Laude	3.250

Note: Spring semester grade calculation is not reflected in the cumulative grade point average used to determine academic honors in the commencement program.

Grievance Policies And Procedures

It is the policy of Cayuga Community College to protect the rights and freedoms of students and other members of the campus community. The College has created internal policies and procedures to address student and consumer complaints and grievances. Policies exist for academic, consumer, discrimination, and sexual harassment complaints. Policies and grievance forms are available in designated offices and on the College web site at **www.cayuga-cc.edu/academics/policies/grievance.**

ACADEMIC GRIEVANCE

If a student has an academic complaint, or believes that he or she has been harmed by an inequitable or inappropriate implementation of the academic regulations and procedures of the College, the academic grievance procedure shall be followed. Students are encouraged to discuss academic concerns with their instructor first. If not satisfied with the outcome of these discussions, the student may then appeal the decision to the instructor's division chair or immediate supervisor. Although the policy does allow for informal as well as formal complaint procedures, students should be aware that there are time limits designated in the policy, and they should seek assistance in resolving an academic conflict as quickly as possible. The academic grievance policy and submission form are available in the Academic Programs office on the Auburn campus and in the campus administration office on the Fulton campus.

CONSUMER COMPLAINT

The College has adopted an internal grievance procedure for the equitable resolution of complaints that do not relate to any other internal grievance procedure. The Consumer Complaint Procedure does not include complaints that are academic (Academic Grievance Procedure), or related to any form of discrimination as defined in the Discrimination Grievance Procedure, or related to sexual harassment, as defined in the Sexual Harassment Policy, or any other complaint for which the College has established a more specific complaint or grievance process. The Consumer Complaint Procedure and submission form are available in the Office of Human Resources and in the Centers for Student Engagement and Academic Advisement on the Auburn campus, and in the campus administration office on the Fulton campus.

Discrimination Grievance

The College has adopted an internal grievance procedure providing for prompt, equitable, and confidential resolution of complaints alleging discrimination on the basis of age, color, disability, national origin, race, religious creed, gender, sexual orientation, or veteran status. Complaints emerging from the Auburn campus, Fulton campus, or any other operation of the College should be addressed either to the affirmative action officer for employees (Director of Human Resources) or to the affirmative action officer for students (Director of Centers for Student Engagement and Academic Advisement). The discrimination grievance policy and submission form are available in the Office of Human Resources and in the Centers for Student Engagement and Academic Advisement on the Auburn campus, and in the campus administration office on the Fulton campus.

Sexual Violence Victim/ Survivor Bill of Rights

www.cayuga-cc.edu/students/resources/sexual-assault-prevention/

Cayuga Community College
197 Franklin Street, Auburn NY
Title IX Coordinator, Office: M242
315-294-8557

STUDENT'S BILL OF RIGHTS

The State University of New York and Cayuga Community College are committed to providing options, support and assistance to victims/survivors of sexual assault, domestic violence, dating violence, and/or stalking to ensure that they can continue to participate in College/University-wide and campus programs, activities, and employment. All victims/survivors of these crimes and violations, regardless of race, color, national origin, religion, creed, age, disability, sex, gender identity or expression, sexual orientation, familial status, pregnancy, predisposing genetic characteristics, military status, domestic violence victim status, or criminal conviction, have the following rights, regardless of whether the crime or violation occurs on campus, off campus, or while studying abroad:

ALL STUDENTS HAVE THE RIGHT TO:

- Make a report to local law enforcement and/or state police;
- Have disclosures of domestic violence, dating violence, stalking, and sexual assault treated seriously;
- Make a decision about whether or not to disclose a crime or violation and participate in the judicial or conduct process and./or criminal justice process free from pressure from the institution;
- Participate in a process that is fair, impartial, and provides adequate notice and a meaningful opportunity to be heard;
- Be treated with dignity and to receive from the institution courteous, fair, and respectful health care and counseling services, where available;
- Be free from any suggestion that the reporting individual is at fault when these crimes and violations are committed, or should have acted in a different manner to avoid such crimes or violations;
- Describe the incident to as few institutional representatives as practicable and not to be required to unnecessarily repeat a description of the incident.
- Be free from retaliation by the institution, the accused and/or the respondent, and/or their friends, family and acquaintances within the jurisdiction of the institution;
- Access to at least one level of appeal of a determination;
- Be accompanied by an advisor of choice who may assist and advise a reporting individual, accused, or respondent throughout the judicial or conduct process including during all meetings and hearings related to such process;
- Exercise civil rights and practice of religion without interference by the investigative, criminal justice, or judicial or conduct process of the College.

OPTIONS IN BRIEF:

Victims/survivors have many options that can be pursued simultaneously, including one or more of the following:

- Receive resources, such as counseling and medical attention;
- Confidentially or anonymously disclose a crime or violation (for detailed information on confidentiality and privacy, visit Options for Confidentially Disclosing Sexual Violence).
- ***Make a report to:*** An employee with the authority to address complaints, including the Title IX Coordinator, a Student Conduct employee, or a Human Resources employee;
    - •Office of Public Safety;
    - •Local law enforcement; and/or
    - •Family Court or Civil Court.

Governance and Excellence

Cayuga Community College Board of Trustees

The College is governed by a ten-member Board of Trustees. The Governor appoints four trustees for seven-year terms; five are appointed by the County Legislature for seven-year terms; a student trustee is elected annually to serve for one year.

Trustees for the 2016–17 academic year are:

Linda P. Van Buskirk, Ph.D., Chair
Jeffrey L. Edwards, Vice Chair
Melina Carnicelli, Secretary
Duanna Johnson Student Trustee
John M. Camardo
Angela Daddabbo
Stephanie Hutchinson
John J. Klink
Mr. Patrick Mahunik
Richard P. Stankus, Ph.D., M.D.

Cayuga County Legislature

Keith Batman, Chairman
Tucker Whitman
Andrew C. Dennison
Benjamin Vitale
Mark Farrell
Paul Pinckney
Aileen McNabb-Coleman
Joe DeForest
Terrance Baxter
Joseph Bennett
Frank Reginelli
Patrick Mahunik
Timothy Lattimore
Michael Didio
Ryan Foley

Cayuga Administrative Leadership

Brian M. Durant, Ed.D.,
President

Anne J. Herron, Ed.D.,
Provost and Vice President for Academic Affairs

Jeffrey E. Rosenthal, M.S.,
Vice President for Student Affairs

Daniel C. DoBell, Ph.D.,
Vice President of Administration/Treasurer

John Lamphere, M.P.A.,
Associate Vice President,
Dean of the Fulton Campus

SUNY Chancellor's Award Recipients

TEACHING EXCELLENCE
Donald F. Fama 1973
Harry R. Greer 1974
Robert H. Brunell 1974
Daniel F. Schultz, Ph.D. 1975
Donald Sanzotta 1978
Janet M. Correll 1990
Scott D. Barnes 1992
Thomas F. Steenburgh 1993
Donald J. Griffin 1995
Victor P. Garlock, Ph.D. 1996
William L. Barth 1997
Howard H. Nelson 1998
Jeffrey P. Delbel, Ph.D. 1999
Linda L. Alfieri, RN 2000
Susan C. Wolstenholme, Ph.D. 2001
Maryanne Felter, Ph.D. 2002
Sharon A. Coolican, Ph.D. 2004
Cheryl A. Foster, RN 2005
Susan K. Gilmore 2006
Christie G. Waters 2007
William A. Prosser 2008
Elizabeth W. McCormick 2009
Paul A. Richardson 2011
Patricia S. Gridley, Ph.D. 2012
Shannon M. Lavey Reohr 2013
John B. Campbell 2015
Kathy A. Gross 2015
Joel Humphrey, Ph.D. 2016
Rob Humphrey, Ph.D. 2016

ADJUNCT TEACHING
Kathy A. Scozzari 2014
James M. Bartley, Jr. 2014
William DeMott 2016
Michelle Speach 2016

FACULTY SERVICE
Robert H Brunell 2004

SCHOLARSHIP AND CREATIVE ACTIVITIES
Howard H. Nelson 2002

LIBRARIANSHIP
Martha J. Lollis 1991
Kathleen J. Long 1996

PROFESSIONAL SERVICE
Martin J. Wisniewski 1991
Douglas O. Michael 1992
David H. Richards, Ph.D. 1993
Susan M. Kuncio 1994
James L. Cranfield 1994
Gregory L. Szczepanski 1995
Thomas J. Paczkowski, CFP 1996
Brenda L. Holland 1997
Vickie C. Condie, RN 1998
Joanne H. Lamb 1999
Steven R. Keeler 2000
Judith G. Miladin 2001
Linda E. Szczepanski 2002
Helene A. Stapleton 2003
Keith M. Batman 2004
Cathleen C. McColgin, Ph.D. 2005
Norman L. Holland 2006
Edward J. Kowalski Jr 2008
David L. Harbaugh 2009
William P. Lovell 2010
Robert M. Frame 2012
Michael A. Pastore 2014

CLASSIFIED SERVICE
Sharon L. Farrar 2009
Patricia A. Stock 2010
Diane M. Salvati 2011
Carol A. MacKenzie 2012
Robert Szczepanski 2013
Patricia J. Hamberger 2014
Ronda L. Olszewski 2015
Ernie Leonard 2016

Faculty

SUNY DISTINGUISHED SERVICE PROFESSOR

STEVEN R. KEELER
English / Humanities Professor
Chairperson, Division of Humanities and Communication
Director, Broadcasting/Electronic Media
M.S., Syracuse University
B.A., University of Buffalo
Graduate Certificate, Telecommunications/Information Resource Management, Syracuse University
Certificate, Online Teaching, UCLA
CCC Excellence Award, 2004-05
SBE National Broadcast Educator of the Year 2000 and 2002

PROFESSOR EMERITUS

DONALD FAMA
JEFFREY P. DELBEL
THOMAS PACZKOWSKI
THOMAS CASELLA
HOWARD NELSON

FACULTY

NICOLE Z. ADSITT
Assistant Professor/ Coordinator of Developmental Studies
M.S., Higher Education, Syracuse University
B.S., Speech-Language Pathology, Nazareth College of Rochester

LINDA L. ALFIERI
Professor, Director of Nursing
B.S., Le Moyne College
B.S.N., SUNY College of Technology at Utica/Rome
M.S.N., Syracuse University
Certified Nurse Educator, National League for Nursing

ABU Z. BADRUDDIN
Professor of GIS
B.S., University of Chittagong, Bangladesh
M.S., Ph.D., SUNY College of Environmental Science and Forestry

RICHARD J. BOWER
Professor of English / Writing Concentration Advisor
A.A., Cayuga Community College
B.A., SUNY Geneseo
M.A., SUNY Oswego
Ph.D., SUNY Albany

MARY R. BULKOT
Associate Professor of English
B.A., Vassar College
M.A., McGill University

JUDITH M. CAMPANELLA
Librarian / Associate Professor
A.A., A.S., Cayuga Community College
B.S., SUNY College at Cortland
M.L.S., SUNY College at Buffalo

JOHN B. CAMPBELL
Professor of Engineering Sciences
Working on C.A.S. in IDD&E, Syracuse University
M.S., SUNY Oswego
B.T., SUNY Utica College of Technology
A.A.S., Mechanical Technology, Onondaga Community College
President, New York State Engineering Technology Association
Chair, Educational Committee, Society of Manufacturing Engineers, Syracuse Chapter 19

DIA M. CARABAJAL
Professor of Computer Science and Mathematics
B.S., M.S., Syracuse University

SHARON A. COOLICAN
Professor of Chemistry
B.S., Chemistry, SUNY Oswego
Ph.D., Chemistry, Indiana University

MICHAEL A. CORTESE
Associate Professor of Recording Arts and Music
M.S., Syracuse University
M.M., Manhattan School of Music, New York, NY
B.M., The University of the Arts, Philadelphia, PA

DAWN CZOLOWSKI
Professor of Accounting / Business
A.A.S., Cazenovia College
A.A.S., Cayuga Community College
B.S., SUNY College at Oswego
M.B.A., SUNY College at Oswego
M.S., SUNY IT at Utica/Rome

CHRISTOPHER G. D'ARCY
Assistant Professor of Biology
B.A., SUNY College at Oswego
M.S., Le Moyne College
D.C., New York Chiropractic College
Senate Award for Faculty Excellence

SARA E. DAVENPORT
Tech Services Librarian / Associate Professor
A.A., Cayuga Community College
B.A., SUNY College at Purchase
M.L.S., Syracuse University

MARY J. DRISCOLL
Assistant Professor of Nursing
Dipl R.N., Crouse Irving School of Nursing
B.A., Keuka College
M.S., Roberts Wesleyan College

MARYANNE FELTER
Professor of English
A.B., English, Syracuse University
M.A., English, University of Maine
Ph.D., English, University of Delaware
CCC Student Senate Excellence in Teaching Award, 1997, 2008
Cayuga Community College Excellence Award 2010-11

BARRY J. FITZGERALD
Assistant Professor of Mathematics
B.S., M.A., Mathematics, SUNY College at Brockport

BRENDA M. FORREST
Professor of Nursing
A.A.S., Cayuga Community College
B.S.N., SUNY College at Utica/Rome
M.S., SUNY Upstate
F.N.P., SUNY Upstate
C.N.S., SUNY Upstate
Nurse Educator Post Master SUNY Upstate

CHERYL A. FOSTER
Professor of Nursing
Pediatric Nurse Practitioner, Post Masters
A.A.S., Cayuga Community College
M.S.N., Syracuse University
B.S.N., D'Youville College
A.O.S., Simmons Institute of Funeral Service
NAACOG Certification in Obstetrics, Neonatal and Gynecological Nursing
Neonatal Resuscitation Certification
Nominated by AMH: CCC for NY State Legislature's Nurse of Distinction Award

SUSAN K. GILMORE
Professor of Biology
B.S., Indiana University of Pennsylvania
M.S., SUNY College at Buffalo

KAREN GRELLA
Accessibility Specialist / Instructor
B.A., Psychology, Syracuse University
B.S., Social Work, Syracuse University
M.S., Education Psychology and Statistics, SUNY College at Albany
C.A.S., School Psychology, SUNY College at Albany
Ph.D., Special Education, Syracuse University

KATHY A. GROSS
Professor of Math
A.A., Cayuga Community College
M.S.Ed, SUNY College at Cortland
B.A., Le Moyne College
Developmental Education Specialist Certification, Kellogg Institute, Appalachian State University

RONALD R. GRUBE
Professor of History
A.A., Cayuga Community College
B.S., Psychology, East Tennessee State University
Master of Divinity, Colgate Rochester Divinity School
Doctor of Philosophy in History and Historiography, Union Institute and University

TERESA R. HOERCHER
Tutorial Coordinator, Professor
A.A., Cayuga Community College
B.A., Nazareth College
M.L.S., SUNY Geneseo
Developmental Education Specialist Certification, Kellogg Institute, Appalachian State University

JOEL YAGER HUMPHREY
Professor of Biology
B.S., Biology, SUNY College of Environmental Science and Forestry
M.S., Biology, SUNY College at Binghamton
M.S., Forensic Science, University of Florida
Ph.D., Syracuse University
Student Senate Award for Faculty Excellence
Cayuga Community College Excellence Award

ROBERT J. HUMPHREY, JR.
Professor of Biology
B.S., SUNY College of Environmental Science and Forestry
M.S.Ed, SUNY College at Cortland
M.S., Cornell University
Ph.D., Cornell University

NGOCANNA P. ANNORINO
Associate Professor of Psychology
B.A., Sociology, SUNY College at Oswego
M.A., Experimental Psychology, DePaul University
Ph.D., Experimental Social Cultural Psychology, DePaul University

MELISSA JOHNSON
Assistant Professor of Art
M.F.A., Painting, The School of the Art Institute of Chicago
B.F.A., Painting, The School of the Art Institute of Chicago
B.S., Rural Sociology, Cornell University

THOMAS A. KARLE
Professor of Physics, Electrical Technology, and Mathematics
B.S., Electrical Engineering, Gannon University
M.S., Electrical Engineering, Syracuse University
Ph.D., Electrical Engineering, Syracuse University

SUNY DISTINGUISHED SERVICE PROFESSOR

STEVEN R. KEELER
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Certificate, Online Teaching, UCLA
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SBE National Broadcast Educator of the Year 2000 and 2002

TERRY L. KUPP
Director, Center for Academic Success / Assistant Professor
B.A., Psychology, Smith College
M.S., Higher Education, Syracuse University

JOHN E. LAMPHERE
Associate Professor of Criminal Justice & History
A.A.S., Cayuga Community College
B.S., SUNY College at Oswego
Masters Public Administration, Marist College
ACC/CCC Alumni Award
Senate Faculty Excellence Award
J. Richard Mahlstedt Jr. Memorial Award

NORMAN LEE
Director of Student Activities / Professor
B.S., SUNY College at Buffalo
M.S., SUNY College at Oswego
J. Richard Mahlstedt Jr. Memorial Award

PETER E. LIDDELL
Director of Athletics / Assistant Professor
B.A., Skidmore College
M.S., SUNY College at Cortland

ELIZABETH W. MCCORMICK
Professor of Business and Computer Science
B.S, M.S. MBA, SUNY Oswego
Chancellor's Award for Excellence in Teaching, 2009

JOAN MEYERS
Assistant Professor, Director of Occupational Therapy Assistant program
B.S., Occupational Therapy, Utica College;
B.S., Biology, SUNY Cortland
M.S., Education, SUNY Cortland

THERESA L. MISIASZEK
Assistant Professor of Criminal Justice
A.O.S., Bryant & Stratton College
B.A., SUNY College at Oswego
M.S., University of Phoenix

MARK L. MONTGOMERY
Professor of English
Ph.D., Binghamton University
B.A., University of California at Santa Cruz
M.A., San Francisco State University

SHEILA M. MYERS
Associate Professor
Coordinator of Experiential Learning Initiatives
M.S., SUNY College of Environmental Science and Forestry
B.A., SUNY Cortland

JENNIFER L. NICHOLS
Associate Professor of Nursing
A.A.S., Cayuga Community College
B.A., SUNY College at Oswego
M.S.N. ,SUNY Upstate Medical College
F.N.P., SUNY Upstate Medical College
Certified Family Nurse Practitioner, AANP

PAUL J. NOLAN
Associate Professor of English
B.A., Mansfield University
M.A., SUNY College at Oswego
Senate Award for Faculty Excellence

MARGARET H. OSBORNE
Coordinator of Career Services Counselor / Associate Professor
B.A., St. Lawrence University
M.A., New York University

MICHAEL L. PACELLI
Professor of Biology
A.S., Math & Science, Cayuga Community College
B.S., Biochemistry, LeMoyne College
M.S., Environmental Engineering, SUNY-ESF
Ph.D., Environmental Science, SUNY-ESF

WILLIAM A. PROSSER
Professor of Economics
A.S., Cayuga Community College
B.S., SUNY College at Oswego
M.B.A., SUNY College at Binghamton
Student Senate Faculty Excellence Award, 2006

VITA MARIE RACKO
Centers for Student Engagement and Academic Advisement
Counselor / Assistant Professor
M.S., Community Counseling, University of Scranton
B.A., Psychology and French, Le Moyne College

SHANNON M. L. REOHR
Professor of Mathematics
M.S., Buffalo State College
B.A., Nazareth College of Rochester
Senate Award for Faculty Excellence

PAUL A. RICHARDSON
Associate Professor of Math
A.S., Onondaga Community College
B.A., M.S.T., SUNY College at Potsdam

LINDA A. ROOKER
Professor of HPER
A.A., Auburn Community College
B.S. M.S., SUNY College at Brockport
CCC Excellence Award 1997-98

KELLEY E. ROWLEY
Professor of English
A.S., Utah Valley State College
B.A., Brigham Young University
M.A., Northern Arizona University
M.A., Ph.D., SUNY College at Buffalo

JEFFREY A. SHEA
Associate Professor of Mathematics
B.S., Mathematics, SUNY College at Potsdam
M.S., Education, SUNY College at Potsdam
Senate Award for Faculty Excellence

EDIE SMITH
Asst. Professor of Nursing
A.A.S., Cayuga Community College
B.S.N., Keuka College
M.S.N., Keuka College

NATHANIEL R. THOMAS
Assistant Professor of Psychology
M.S., Experimental Psychology, Syracuse University
B.S., Psychology, Coastal Carolina University

ROBERT L. TORRISI
Associate Professor, Sociology, Criminal Justice and History
B.A., University of Notre Dame
M.A.T., Manhattanville College
M.A., Fordham University
M.P.H., Yale University

DIANA E. VALDINA
Professor of English
B.A., St. Lawrence University
M.A., Northwestern University

AMY VALENTE, PMP
Assistant Professor of Business
M.B.A., Business Administration, St. John Fisher College
Post Baccalaureate Teaching Certification Program., Nazareth College
B.S., Business Administration, SUNY College at Albany
Certified Project Management Professional (PMP), Project Management Institute
J. Richard Mahlstedt Jr. Memorial Award

EDWARD J. WAGNER
Professor of HPER
M.S.E., B.S.E., SUNY College at Cortland

CHRISTIE G. WATERS
Associate Professor of Engineering and Mechanical Technology
Chairperson, Division of Natural and Health Sciences, Mathematics and Technology
B.S., Cornell University
M.S., Syracuse University
Senate Award for Faculty Excellence

DELECIA WEATHERSTONE
Asst. Professor of Nursing
A.A.S., Crouse Hospital School of Nursing
B.S.N., Roberts Wesleyan College
M.S.N., Keuka College
Oncology Certified Nurse, Oncology Nursing Society

SUSAN C. WOLSTENHOLME
Professor of English
Ph.D, Cornell University
M.A., Cornell University
M.A., Syracuse University
B.A., Trinity College (Washington, DC)
President's Award Recipient

SARAH L. YAW
English Specialist / Assistant Professor
B.A., SUNY College at Albany
M.F.A., Sarah Lawrence College

MICHAEL C. ZICH
Associate Professor of Psychology
B.A., M.S., SUNY College at Buffalo

ERIC A. ZIZZA
Transfer Counselor / Professor
B.A., Colgate University
M.S., SUNY College at Oswego

Campus Facilities and Map

Directions to both Cayuga campuses are available on the College web site at **www.cayuga-cc.edu.**

Auburn Campus

197 Franklin Street, Auburn, New York 13021
315-255-1743 or 866-598-8883

MAIN BUILDING
The Main Building houses most student services offices, including Admissions, Financial Aid, Business, Registrar, Health Services, and Centers for Student Engagement and Academic Advisement. The offices of the president, vice presidents, deans, division chairs, and many of the faculty are in the Main Building, as are the Foundation and Alumni Association offices. The Main Building also houses art studios, chemistry labs, the computer-assisted design (CAD) lab, geographic information technology lab, computer lab complex, electronics labs, piano lab and choral suite, a student recreation room, and the Irene A. Bisgrove Community Theatre.

HEALTH-BUSINESS-TECHNICAL (TECH) BUILDING
The Health-Business-Technical (Tech) Building provides classroom space for nursing, business, criminal justice, science, and technical programs. Facilities in the Tech Building include nursing labs, a state of the art television studio, the WDWN-FM (89.1) 3,000-watt stereo broadcast facility, interactive video and distance learning classrooms, and faculty offices.

LIBRARY BUILDING
In addition to the main facilities and resources of the College Library, the Library Building also houses the Center for Academic Success, the Office of Accessibility Resources, classrooms and faculty offices.

CHILD CARE CENTER
The Center has two locations depending on the age of the child in care. Our infant & toddler programs are located in the former nature center building. Our 3 year old & UPK programs are located in the lower level of the Library Building at Cayuga Community College, 197 Franklin Street, Auburn, NY, 13021. The phone number is 315-294-8603, Fax # 315-255-2117.

SPARTAN HALL
Home to the Student Center, college bookstore, and Subway restaurant, Spartan Hall also houses classrooms, offices, and courts for basketball, racquetball, and volleyball, a fitness center with aerobic super circuit, weight training room, and locker rooms. Spartan Hall is in full compliance with Title IX and 504 regulations, providing equal facilities for men and women and special access and facilities for persons with disabilities.

NATURE TRAIL
The Nature Center also includes a mile-long exercise circuit and nature trail with ponds, gardens, and gazebo.

JAMES T. WALSH REGIONAL ECONOMIC CENTER/ KARPINSKI ROTUNDA
The James T. Walsh Regional Economic Center/ Karpinski Rotunda features classrooms, seminar rooms, and event/reception space. The building is also home to the College's Community Education and Workforce Development Office, offering standard and customized contract training for area employers. Also housed in the Regional Economic Center is on-campus space for employment and training programs and Cayuga Works. The Institute for the Application of Geospatial Technology, (IAGT)headquartered in the Regional Economic Center, processes data from NASA satellites and other sources on a contract basis to support regional planning and development. IAGT also offers several educational programs, including student cooperatives and summer internships, training for K-12 teachers in classroom use of geospatial information technologies, and a summer career camp for middle school students.

Fulton Campus

11 River Glen Drive, Fulton, New York 13069
315-592-4143 or 866-598-8883

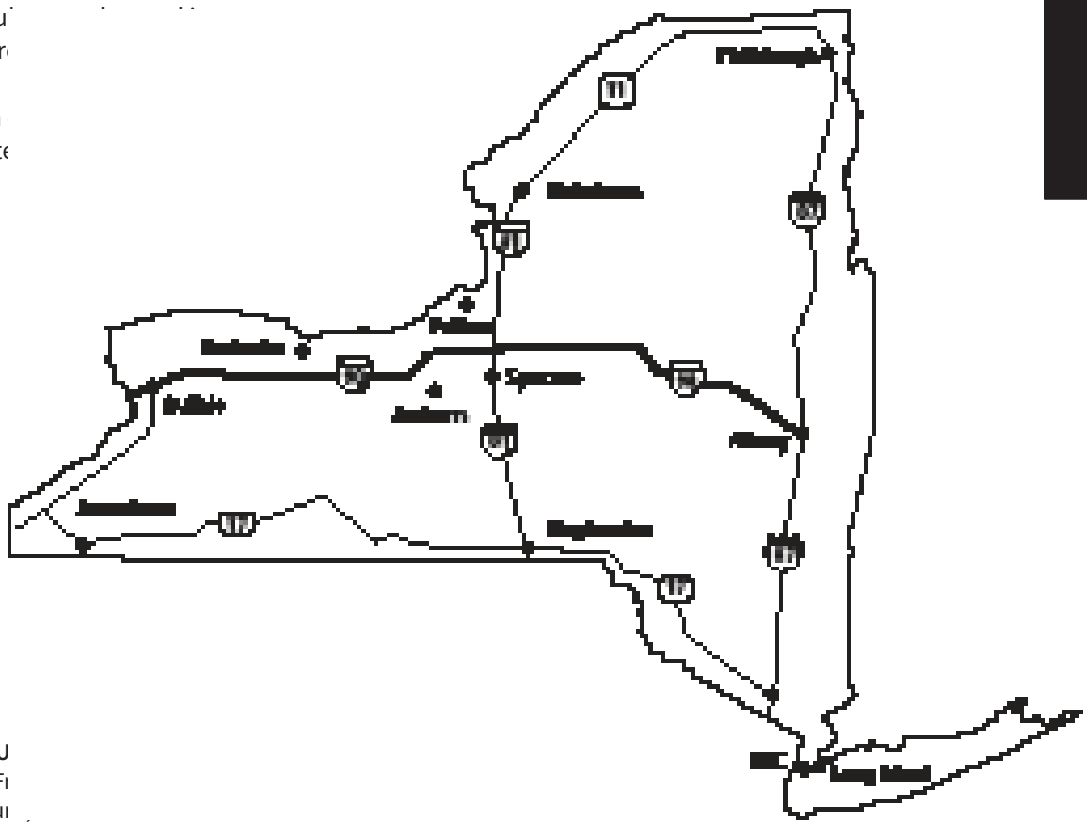
Since 1994, Cayuga Community College has provided a gateway to higher education in the Oswego County region. Students can complete requirements for a host of degrees offered entirely at the Fulton Campus, a state of the art facility at 11 River Glen Drive featuring classrooms, labs, student lounge space and event center, college bookstore and a stunning learning commons at the heart of the campus. This new facility enables Cayuga Community College to meet the needs of Oswego County and the surrounding region for years to come.

Two Convenient Locations

Both Cayuga Community College campuses are easy to reach from anywhere in the Northeast. The Auburn campus is located in the City of Auburn in Cayuga County, a short drive from New York State Thruway Exit 40. The Fulton campus is located in the City of Fulton in Oswego County.

The Cities of Auburn and Fu
the beautiful Finger Lakes r

Detailed directions to both
are available on our website
www.cayuga-cc.edu



CAYUGA
COMMUNITY COLLEG

AUBU
197 F
Aubu
315-255-1743
or 866-598-8883

FULTON CAMPUS
11 River Glen Drive
Fulton, New York 13069
315-592-4143
or 866-598-8883

Academic Calendar

Note On Course Availability

Class days and times for courses to be offered in the next semester may be viewed online at www.cayuga-cc.edu; click on myCayuga, then Class Schedule.

Students may be required to attend evening classes and/or classes in Auburn if they wish to complete certain degree or certificate programs outlined in this catalog.

Cayuga Community College reserves the right to cancel any course described in this or any other college publication. The College also reserves the right to change any rules governing curricula, administration, tuition, fees, admission, dates, course content, and regulations affecting students. Such changes may take effect whenever the administration and Board of Trustees deem necessary.

FALL 2016: DAY, EVENING & ONLINE CLASSES

August	25	Thurs	Orientation begins - Fulton
	26	Fri	Orientation ends – Auburn
	29	Mon	Classes begin
	31	Wed	Last day to add classes – first half (7.5 week)
September	2	Fri	Last day to add classes (15 week)
	2	Fri	Last day to drop classes - first half (7.5 week)
	5	Mon	Labor Day - no classes
	16	Fri	Last day to drop classes (15 week)
	30	Fri	Last day to withdraw – first half (7.5 week)
October	3	Mon	Ten (10) week classes begin
	5	Wed	Last day to add classes (10 week)
	10	Mon	Columbus Day -only evening classes meet
	19	Wed	Midterm grades due
	19	Wed	First half semester classes end (7.5 week)
	21	Fri	Last day to drop classes (10 week)
	24	Mon	Second half semester classes begin (7.5 week)
	26	Wed	Last day to add classes – second half (7.5 week)
	28	Fri	Last day to withdraw (15 week)
	28	Fri	Last day to drop classes – second half (7.5 week)
	31-Nov. 4	Mon-Fri	Advisement and current student registration
November	7-11	Mon-Fri	Advisement and current student registration
	11	Fri	Last day to withdraw (10 week)
	14	Mon	Open registration begins
	23-27	Wed-Sun	Thanksgiving Break begins Wed. at noon
	28	Mon	Last day to withdraw – second half (7.5 week)
December	9	Fri	Classes end
	12-18	Mon-Sun	Final exams (evening class exams given during regular class time)

INTERSESSION 2017: DAY & ONLINE

January	3	Tues	Classes begin
	3	Tues	Last day to add classes
	10	Tue	Last day to drop classes
	12	Thu	Last day to withdraw
	13	Fri	Classes end – final exams

SPRING 2017: DAY, EVENING & ONLINE CLASSES

January	12	Thu	Orientation begins - Fulton
	13	Fri	Orientation ends - Auburn
	17	Tue	Classes begin
	19	Thu	Last day to add classes - first half (7.5 Week)
	23	Mon	Last day to add classes (15 week)
	23	Mon	Last day to drop classes - first half (7.5 Week)
February	6	Mon	Last day to drop classes (15 week)
	20	Mon	Last day to withdraw classes - first half (7.5 Week)
	20	Mon	Ten (10) week classes begin
	22	Wed	Last day to add classes (10 week)
	23-26	Thurs-Sun	Winter Break - no classes
March	8	Wed	Assessment Day – only evening classes meet
	10	Fri	First half semester classes end (7.5 week)
	10	Fri	Last day to drop classes (10 week)
	13	Mon	Midterm grades due
	15	Wed	Second half semester classes begin (7.5 week)
	17	Fri	Last day to add classes – second half (7.5 week)
	20	Mon	Last day to withdraw (15 week)
	21	Tue	Last day to drop classes – second half (7.5 week)
	27-31	Mon-Fri	Advisement and current student registration
	31	Fri	Last day to withdraw (10 week)
April	3-5	Mon-Wed	Advisement and current student registration
	6-16	Thurs-Sun	Spring Break - no classes
	17	Mon	Open registration begins
	18	Tue	Last day to withdraw – second half (7.5 week)
May	12	Fri	Classes end
	14-18	Sun-Thurs	Final exams (evening class exams given during regular class time)
	21	Sun	Commencement

SUMMER 2017: SESSION I - 4 WEEKS

May	31	Wed	Classes begin
June	2	Fri	Last day to add classes
	6	Tue	Last day to drop classes
	16	Fri	Last day to withdraw
	27	Tue	Classes end
	28	Wed	Final exams

SUMMER 2017: SESSION II - 6 WEEKS

July	5	Wed	Classes begin
	7	Fri	Last day to add classes
	11	Tue	Last day to drop classes
	31	Mon	Last day to withdraw
August	15	Tue	Classes end
	16-17	Wed-Thu	Final exams

SUMMER 2017: ONLINE

May	31	Wed	Ten (10) week classes begin
	31	Wed	First five (5) week classes begin
June	2	Fri	Last day to add classes – (5 week)
	6	Tue	Last day to drop classes (5 week)
	6	Tue	Last day to add classes – (10 week)
	20	Tue	Last day to withdraw – (5 week)
	20	Tue	Last day to drop classes – (10 week)
July	5	Wed	First five (5) week classes end
	6 – 7	Thu – Fri	Final exams for online classes – (5 week classes)
	11	Tue	Last day to withdraw – (10 week)
	12	Wed	Second five (5) week classes begin
	14	Fri	Last day to add classes - (second 5 week)
	18	Tue	Last day to drop classes – (second 5 week)
August	1	Tue	Last day to withdraw – (second 5 week)
	8	Tue	Last day for online classes (10 week)
	9-10	Wed-Thu	Final exams for online classes (10 week)
	15	Tue	Last day for online classes (second 5 week)
	16-17	Wed-Thu	Final exams for online classes (second 5 week)

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Office Directory

AUBURN CAMPUS **315-255-1743**

197 Franklin Street, Auburn, NY 13021-3099

Academic Partnerships	315-294-8529
Academic Programs	315-294-8660 or 315-294-8669
Accessibility Resources	315-294-8422
Admissions	315-593-9387
	or Toll Free at 1-866-598-8883
Alumni Office	315-294-8524
Athletics Office	315-294-8861
Bookstore	315-294-8690
Business Office	315-294-8450
Center for Academic Success	315-294-8593
Centers for Student Engagement and Academic Advisement	315-294-8523
Community Education and Workforce Development	315-294-8841
Computer Lab	315-294-8634
Developmental Studies	315-294-8604
Financial Aid	315-294-8546
Health Services	315-294-8503
Cayuga Help Desk	315-294-8568
Human Resources	315-294-8650 or 294-8556
Library	315-294-8596
Preschool	315-294-8603
Public Safety	315-294-8411
Registrar	315-294-8516
Subway Restaurant	315-569-0570

FULTON CAMPUS **315-592-4143**

11 River Glen Drive, Fulton, NY 13069-1560

Accessibility Resources	315-593-9327
Administrative Offices	315-593-9363
Admissions	315-593-9387
Bookstore	315-592-7023
Business Office	315-593-9304
Center for Academic Success	315-593-9328
Centers for Student Engagement and Academic Advisement	315-593-9394
Health Services	315-593-9311
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