

Dear Parent/Guardians and Students,

The selection of courses is both exciting and important. Students must take courses that fulfill the requirements of a diploma, as well as take elective courses that are of interest to them and serve as an introduction to possible future careers.

Please read through the graduation/exam requirements and course descriptions on the following pages. Discuss them with your son or daughter; consider their interests and their plans for the future. Please keep in mind the add/drop policy of the school. Changes must be made within the first 10 days of class. Much thought and preparation goes into all our classes and students can gain a lot of insight by challenging classes. Drops should not occur for reasons such as friends, sports, failing grades, etc. Resources are available to help students overcome these challenges.

We are happy to answer any questions you have about our classes or what is necessary to meet college and career goals. Together, with encouragement and input from families, and guidance from teachers and counselors at school, we can develop a high school experience that is rewarding for each individual student.

All students are required to take a minimum of six classes plus physical education each semester. Courses listed here are not guaranteed and are subject to change based on number of requests and individual student schedules. Please consult the student handbook for rules on academic eligibility and the school attendance policy.

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Graduation Requirements

Minimum Graduation Requirements

Courses:	Regents Diploma	Regents with Advanced Designation
English	4 credits	4 credits
Social Studies	4 credits	4 credits
Science	3 credits	3 credits*
Math	3 credits	3 credits*
Foreign Language	1 credit	3 credits* **
Art or Music	1 credit	1 credit
Health	.5 credit	.5 credit
Physical Education	2 credits (4 years)	2 credits (4 years)

*selections in these areas can affect diploma type and college admissions

** 5 units of occupational education may be substituted for the foreign language. Keep in mind, however, that increasingly 4 year colleges expect students to have more than 1 year of foreign language for acceptance.

Students must have a minimum of **22 total credits**. A credit is earned after full participation in a class and an earned final average of 65 or higher. Credits are earned in required courses as well as elective courses. Electives may be taken from a variety of subject areas including art, family and consumer science, technology, agriculture, music, english, social studies, science and career courses at the Regional Education Center in Auburn.

Regents Exams Required for Graduation

Entering Freshman Class	Local Diploma Requirements	Regents Diploma	Regents with Advanced Designation
Fall 2008 and later	A Local Diploma is an option for regular education students through an appeal and under certain circumstances. It is also an option if specifically approved for students with disabilities. Please discuss the Local option with the Counselor.	Score 65 or above on 5 required Regents exams. Exams include 1 Math, 1 Science, Global History, US History and the English exam. *	Score 65 or above on 9** required Regents exams. Exams include 3 Math, 2 Science, Global History, US History, Foreign Language(locally developed exam), and the English exam.

*4+1 pathway – students can earn a diploma by passing only one of the history exams, but must substitute a state approved exam in another area or meet the criteria for the CDOS pathway. All the other Regents exams must still be passed with a 65 or higher. Details for this diploma may be discussed with the counselor.

**Students who complete all coursework and testing requirements for the Regents Diploma with Advanced Designation, and who pass with a score of 85 or better, three Regents exams in math and and/or three exams in science, will earn their diploma with an annotation on it that denotes mastery in mathematics and/or science.

Please keep future plans in mind when selecting courses. College-bound students should strive to take the most challenging courses they can.

Electives are a great way for *all* students to get an idea of different careers. Students often ask what courses they should take if they are interested in a particular career. **While there are no set requirements for electives, the following pages offer suggestions of courses that students may want to consider, depending on their career interest.**

Possible Course Selection Based on Career Interest

Business – There are many areas of business in which students may be interested. Accounting and Finance are two fields that are expected to grow quickly in the next ten years. Many career fields require skills in business as well, such as law enforcement, health care, and government. Students thinking about attending college for business, or thinking they may run their own business, should consider the following courses through high school:

- ❖ CFM (Career and Financial Management)
- ❖ Accounting I & II
- ❖ Foreign Language
- ❖ Public Speaking (senior English course)

Additionally, students should be proficient in math and writing skills.

Health Care– All students are required to pass the ½ credit general health class for graduation. However, jobs in Health Care are one of the fastest growing segments of careers in the next decade. Careers expected to grow include nursing, home health aides, medical assistants, and specialization in pediatrics and gerontology. Students interested in health care should take the following courses in high school:

- ❖ Regents Biology, Earth Science, and Chemistry
- ❖ Regents Algebra, Geometry and Algebra II
- ❖ AP Chemistry/AP Biology
- ❖ Bones, Bodies, Bandages
- ❖ Introduction to Psychology
- ❖ Nutrition or Medical Terminology (on-line course)
- ❖ Food & Nutrition
- ❖ Accounting I & II (jobs in pharmacy and medicine use a great deal of business skills for managing budgets and insurance processing)
- ❖ Foreign Language

Students interested in Physical Therapy, Occupational Therapy, etc.. will need to also plan 20 hours of observation and shadowing of a professional in the field.

Fine Arts – The Arts will foster creativity which is an important skill in this rapidly changing world. Arts are known to improve whole brain development and aid in critical higher level thinking skills. When you study art, you will improve your vocabulary, learn how to observe, interpret, see different perspectives, analyze, and synthesize the language of art expression. Students interested in the Fine Arts may want to consider the following sequences of courses depending upon their career interests:

Studio Art/Art Education

Studio Art
Drawing and Painting
Ceramics
Digital Photography
Mixed Media

Graphic Design/New Media/ Architecture

Studio Art
Drawing and Painting
DDP (Design and Drawing for Production)
Digital Photography
Graphic Design
Introduction to Architecture

Music Performance/Music Education – Entrance to and success in music programs in college require as much music background as possible. Students should plan to take private, outside lessons as well as the following courses while in high school:

- ❖ Chorus/Band
- ❖ Music Theory

Engineering – Students interested in Engineering, particularly biomedical or software engineering, can expect a career that is in high demand as well as highly demanding. Students thinking of attending college in any area of engineering should prepare by taking a rigorous course load in high school. The following courses are recommended:

- ❖ DDP (Design and Drawing for Production)
- ❖ CIM
- ❖ Basic Electricity and Digital Electronics
- ❖ Principles of Engineering
- ❖ Materials Processing
- ❖ Robotics
- ❖ Algebra, Geometry, Trigonometry, College Math 104/106 and Calculus for accelerated students
- ❖ Biology, Earth Science, Chemistry and Physics
- ❖ Programming I
- ❖ Drone Design and Flight

Technology – All careers today utilize some form of technology. It is important for students to take courses in the areas of technology and computers. For those interested in specific careers that use technology, many are among the fastest growing fields of the future such as Network Administration and Systems and Data Analysis. The following are recommended depending on the student’s area of interest:

Computer Sciences

Basic and Digital Electronics
 Graphic Design
 Principles of Technology
 Algebra and Geometry
 Programming I
 Drone Design and Flight

Design and Drafting

Studio Art
 DDP
 Principles of Engineering
 CIM
 Graphic Design
 Materials Processing

Manufacturing

DDP
 CIM
 Principles of Engineering
 Principles of Technology
 Energy Systems
 Materials Processing

Education/Family and Consumer Sciences/Social Sciences – these electives are important skills for all students to know. Many careers utilize the skills gained in these courses as well. Specifically, students interested in the following careers should consider taking courses in this area:

Hospitality

Food and Nutrition
 Food Preparation
 Accounting I & II
 Public Speaking (Eng. course)

Criminal Justice, Social Work, Education

Public Speaking (Eng. course)
 Introduction to Psychology
 Early Childhood
 Sociology

Culinary Arts

Food & Nutrition
 Food Preparation
 Nutrition (online)

Interior Design

Studio Art
 Drawing/Painting
 Photography
 Graphic Design

Agriculture - There are a variety of career opportunities in the study of Agriculture including but also beyond farming. Students may be interested in the growing fields of Agribusiness, Mechanics, Food Science, Environmental services, Animal Science, Plant and Horticulture Science and Natural Resource development.

- ❖ Living Environment/Earth Science
- ❖ Introduction to Agriculture
- ❖ Animal Science
- ❖ Small Engine/Ag Power and Technology
- ❖ Environmental Science

Advanced Placement & College Courses

The following college courses are available for students pending they meet the requirements for the individual courses. Students must request a transcript from the college the course is through to be sent to any college(s) that they may apply to upon completion. There is no cost to students for these courses, however, it is mandatory that student's parents fill out necessary residency paperwork before any deadlines or else the college will bill the student for the course.

Cayuga Community College Courses:

CCC English 101/102 (*total 6 college credits*)
CCC Elementary French 101 and 102 (Fr IV) (*total 7 college credits*)
CCC Intermediate French 103 and 104 (Fr V) (*total 7 college credits*)
CCC Introductory Spanish 101 and 102 (*total 7 college credits*)
CCC Intermediate Spanish 201 and 202 (*total 7 college credits*)
College Math 104 – College Algebra & Trigonometry (*3 college credits*)
College Math 106 – Pre-Calculus (*3 college credits*)
College Math 108 – Calculus (*4 college credits*)
College Math 214 – Statistics (*3 college credits*)
Geology 110 – (*4 college credits*)
Geology 111 – (*4 college credits*)
Strategies for Success – (*3 college credits*)

Online College Courses (CCC):

These are **college courses** taught by **college professors**

Fall 2022

PSY 101 – Psychology
COM 130 – Human Communications
BUS 103 - Principles of Business

Intersession 2023

HLTH 104 – Personal Health

Spring 2021

SOC 101 – Sociology
ECON 102 – Personal Finance
BUS 232 - Intro-Social Media
Marketing
PSY 212 -Developmental Psych (101
prereq)

Onondaga Community College Course:

Public Speaking COM 210 (*3 college credits*)

AP – College Board Courses *there is a fee for each course exam

AP United States History and Government
AP European History
AP Chemistry
AP Biology

Course Electives

Please look further at the course descriptions. SOME electives are only offered EVERY OTHER YEAR. These electives are available based on enrollment and are not guaranteed.

Agriculture

Intro to Agriculture
Animal Science
PreVet Science
Small Engine Repair
Ag Power and Technology

Art

Studio Art
Drawing/Painting
Mixed Media
Ceramics
Communication Through the Arts
Digital Photography

Business Math

Accounting
Career and Financial Management

BOCES/CCC Online

Online electives, see page 27 for the list of offerings.

Driver's Education

Driver's Ed – Summer school offering

English

Public Speaking
Creative Writing
Gothic Literature
Greek Mythology
Film Making
Plays and Performance
Yearbook Publication
Poetry/Lyric Writing
Exploring the Graphic Novel
Magical World of YA fantasy

Family and Consumer Science

Food & Nutrition
Food Preparation
Early Childhood
Parenting
Life Hacks 101

Health

Bones, Bodies and Bandages
Human Sexuality
Positive Psychology
Exploring Health Careers

Math

Programming
Applied Math
College Statistics

Science

Geology 110/111
Environmental Studies
General Chemistry
Astronomy
AP Chem
AP Bio
Applied Physics/POT
Science Fiction (Mythbusters)
Science of Fitness
Forensic Science

Music

Concert Band
Chorus
Sound Recording
Music Theory
Piano
Musical Theater/Drama

Social Studies

Introduction to Psychology
Introduction to Sociology
History Through Film
AP European History

Technology

Design & Drawing for Production
Computer Integrated Manufacturing
Intro to Engineering
Principles of Technology I
Materials Processing (Metals/Woods)
Computer Graphics
Introduction to Robotics
Drone Design & Flight

Technology cont...

Basic Electricity
Life Hacks 101
Introduction to Architectural Drawing

Course Offerings and Descriptions

Courses may or may not be offered depending on enrollment and some courses are only offered every other year.

Agriculture

The following courses are available based upon enrollment.

Agriculture, Food and Natural Resources

Come and get your hands dirty! In this class you'll plant, eat, and burn your way to success as you learn all about animals, plants, soil, food, mechanics and other sciences related to agriculture. Students will hone their problem solving skills through hands-on learning labs and gain real-world experience in the many agricultural careers found throughout the country and in our community. By the end of this course students will know where their food comes from, and how the agricultural products they use on a daily basis are made.

1 year = 1 credit

Animal Science

Have you ever wondered what the stomachs of a cow look like? Can you clicker train a chicken to ring a bell? What about aptitude testing puppies? Animal Science is the class for you! The goal of this course is to introduce students to the concepts of animal science. This course will focus on various types of animals including production, pet, and exotic species. Students in this class will learn how to properly manage and care for the different species discussed as well as the careers related to animal science. Students will learn the basic concepts of nutrition, reproduction, housing, health and other aspects of animal care specific to species. Students will get hands-on experience with animal handling and care, ranging from chickens to rabbits. From hamsters to elephants, we'll learn about them all!

1 year = 1 credit

Veterinary Science

Do you have a passion for animals? Are you interested in pursuing a career in the veterinary field, or do you just want to learn more about caring for animals? Vet Science introduces students to the veterinary industry, as well as the skills of surgical techniques like suturing, restraint and injections! During this course students will learn about the inner workings of being a vet, or working in a vet clinic. Students will learn about customer relationships and how to manage a veterinary clinic. Students will work hands-on with animals to practice their examination skills. Students will learn how to bandage wounds and other forms of animal care.

½ year = ½ credit

Ag Power and Technology EOY next time offered 2023-24

Love engines, energy, technology AND agriculture? Agricultural Power and Technology (APT) exposes students to mechanics, power, technology and career options in the world of agriculture. Students participating in the APT will experience mechanical and engineering concepts with exciting hands-on activities, with two or three labs per week. Students will acquire the basic skills to operate, repair, engineer and design agricultural tools and equipment.

½ year = ½ credit

Small Engine Repair EOY next time offered 2022-23

Do you want to work with your hands? Do you love the smell of grease as much as I do? Maybe you're just curious about how engines work, or you just want to fix up your old lawn mower. This is the class for you! In this course we will learn the parts and functions of basic gasoline engines. You will tear down and rebuild your own engine, learning what each of the functional parts of an engine does along the way! If you want to continue your education at BOCES, work in small engine repair or just be equipped to fix your own small machines, this class will give you the foundation you need to start a career or just save money making your own repairs.

½ year = ½ credit

Art Education

The following courses are available based upon enrollment.

Course I (Studio Art)

Studio Art is a fun introductory course for students with an interest in art and a desire to advance their skills. During the first semester, the development of basic drawing and painting skills will be stressed. Second semester, the concentration shifts to three dimensional design and clay construction. Following the successful (maintaining a strong 85% average) completion of Course I, students are encouraged to continue their artistic studies through further development in a Course II elective. **This course fulfills the 1 credit of fine arts required for graduation.**

1 yr. = 1 credit

Course II (Drawing & Painting I // Drawing & Painting II)

Drawing & Painting is a course designed for students who prefer creating 2-dimensional works of art, and who have successfully completed Studio Art. During the first half of the year students will review the Elements and Principles of Design, concentrate on sharpening their drawing skills through observation, and expand their knowledge of different mediums and techniques. The second half of the year students will have the opportunity to expand their knowledge of painting and to use acrylic paints. Throughout the year students will be expected to goal set, problem solve and overcome challenges. **Prerequisite:** completion of Course I Studio Art with a minimum 85% average.

½ yr each. = 1/2 credit each

Course II (Ceramics I // Ceramics II)

Ceramics is a course of study for students who have had success in Studio Art, love to get their hands dirty and wish to continue to develop their three dimensional clay-building skills. Students will further their understanding of glazing and hand building techniques, investigating both functional vessels and sculptural forms. Students will have the opportunity to work on the pottery wheel and train for the exciting “Feats of Clay” competition which is at OCC in May. You will be able to make ceramic art that will last forever. **Prerequisite:** completion of Course I Studio Art with a minimum of an 85% average.

1/2 yr each. = 1/2 credit each

Course II (3D Sculpture) EOY next offered 2023-24

This is a course for the student who loves to make art but who cannot fit a full year of 3D art in their schedule. It is an exciting ½ year, ½ credit art course focusing on creating 3 dimensional sculptures out of a variety of mediums. We will be focusing on applying the elements and principles of design to mediums such as plaster, clay, wood, soapstone, metal and anything you can think of to create a personal expression through art. **Prerequisite:** passing Studio Art with a minimum 85% average.

½ yr. = ½ credit

Course II (Digital Photography) EOY next offered in 2023-24

This course focuses on the history of photography, use of a digital camera, composition strategies, and on various career opportunities available for those with skills in photography. Adobe Photoshop will be used to edit and alter the photos taken during this course. Students will be expected to take photos outside of school, during weekends, and on breaks. Success in this course depends on effort outside of the classroom. No prior experience is necessary. Suggested Grade Level: 10-12

½ yr. = ½ credit

Course III (Mixed Media) EOY next offered in 2022-23

This is a course for students who enjoy creating art in either 2D or 3D media and is designed to enhance students’ problem solving skills. Emphasis will be placed on idea synthesis and experimentation with multiple mediums. Combining different mediums together in single works of art will allow students to create a more unique and meaningful body of work. **Prerequisite:** a minimum of a half year credit in either Drawing & Painting or Ceramics.

1 yr = 1 credit

Course III (Advanced Ceramics) Offered as independent study

This course is a continuation in the awesome world of ceramics. It will explore a wide range of building techniques with the emphasis on individual technical experimentation and conceptual exploration. Students will also have the opportunity to continue to work on the pottery wheel to train for the awesome “Feats of Clay” competition which is at OCC in May. Through research and group critiques, students develop their own critical dialog and expansive view of ceramics as a limitless medium for artistic expression. **Prerequisite:** completion of Ceramics II with a minimum of an 85% average

1 yr. = 1 credit

Course III (Communication Through the Arts) EOY next offered in 2023-24

This is a course of study focusing on communication through the Visual Arts, and the artist’s ability to control the viewer through their work. Students will begin to experiment and combine the techniques learned in both Drawing and Painting. Creating mixed-media will allow students more freedom of expression and will help them gain vital problem-solving skills. **Prerequisite:** is completion of at least ½ year in Drawing and ½ year in Painting.

1 yr. = 1 credit

Business Math

The following courses are available based upon enrollment.

Accounting I

Starting your own business can be a challenge. If you are interested in running a successful business, then taking this class will be a step in that direction. The accounting cycle will be covered which includes learning about small business, how to use basic journals, posting and simple financial statements. Get it now to be successful later.

1 yr. = 1 credit

Career and Financial Management (CFM) EOY next offered 2022-23

This CTE course will cover career development and options, job searching, regulations, skills, lifelong learning, communication and technology. The financial component encompasses budgeting, money management, credit, loans, interest, investments, insurance and taxes.

½ yr. = ½ credit

Driver's Education

This is only offered over summer school

Driver & Traffic Safety Education

Driver & Traffic Safety Education in New York State schools is a course implemented via a joint partnership between NYS Education Department (NYSED), and the Department of Motor Vehicles (DMV). The Driver Education course is intended to educate students (age 16 or older) on appropriate driving skills and habits as well as playing a responsible role in the highway transportation/safety system. Course highlights include 24 hours of classroom instruction. **24 hours behind the wheel must be done under the supervision of a parent/guardian. We are not offering the hands-on driving with the instructor at this time.** Students who satisfactorily complete the course are eligible to sit for their road test and receive the MV-285 Student Certificate of Completion. This course will be offered throughout the school year (2 Semesters).

Requirements: Student must be 16 yrs. of age or older on the first day of class and must have a NYS Driver's Permit. Parent/Guardian must sign permission form.

½ yr. = ½ credit

English

Students are required to take and pass 4 years of English, following the prescribed sequences 9-12.

English 9

Students will read and analyze a variety of fiction and informational texts. In addition to closely reading texts, this course heavily emphasizes technical writing skills such as thesis statements, essay writing, and conventions.

1 yr. = 1 credit

English 9 Honors

In addition to the skills and content of English 9, students in Honors will be exposed to more reading and writing material and assignments, and they will also practice the same Common Core skills in more in-depth and independent ways. **Criteria:** Students must have a minimum final average of 90% in English 8 to be considered for this class as well as Teacher Recommendation.

1 yr. = 1 credit

English 10

Students will explore various genres including the short story, drama, poetry and the novel. Students will develop their essay writing skills using the standard conventions of written English in preparation for the Regents exam at the end of English 11.

1 yr. = 1 credit

English 10 Honors

English 10 Honors focuses on in-depth discussions of higher-level literature. This course is intended for students with advanced skills in English to further refine those skills. **Criteria:** You must have a minimum final average of 90% or above in English 9 or 85% in English 9 Honors as well as Teacher Recommendation.

1 yr. = 1 credit

English 11

Students will explore our American Society through close reading, analysis and discussion of American Literature. Additional time will be spent on developing writing skills and the skills needed for the **Regents in English Language Arts (Common Core)** exam.

1 yr. = 1 credit

English 11 Honors

Honor students will explore and develop a comprehensive understanding of our American Society through the close reading, analysis, discussion and writing of American Literature. Additional time will be spent on developing the skills needed for the **Regents in English Language Arts (Common Core)** exam, which is given in June. **Criteria:** You must have maintained a minimum average of 85% or above in English Honors 10 course or have a minimum final average of 90% or above in standard English 10 course as well as Teacher Recommendation.

1 yr. = 1 credit

English 12: Seniors will need to pick a minimum of one of these following options:

1. **English 12 Full Year Option** – Looking for a little of everything? English 12 is a full year option designed to build upon the 11th grade foundation and further develop your skills with a variety of fun, interesting and challenging units. We will learn through units in literature, memoir, public speaking and career exploration.

1 yr. = 1 credit

OR

2. **College Level English 101/102 through CCC Advantage Program**
3 College Credits each

Students will not be permitted to enroll in this course merely for high school credit.

101 is a basic course in freshman college composition, including the reading of expository prose and short stories and the writing of expository themes. A portfolio demonstrating proficiency in a variety of written tasks is required.

½ yr. English 101 = ½ credit

102 includes an introduction to literature (the novel, drama, short stories and poetry) and the writing of critical themes based on the reading.

½ yr. English 102 = ½ credit

Prerequisites:

- I. English 11H with a minimum average of 85%
Or
English 11 with a minimum average of 90%
- II. English Regents Examination of 80 or better
- III. Passing Score on ACCUPLACER

OR

3. **English 12 half year/Public Speaking half year**

English Electives (open to all students)

Public Speaking COM 210

3 College Credits through OCC

Public Speaking is a course designed to acquaint the student with the basic theories and skills of public discourse. Course content includes the importance of audience analysis and adaptation, how to choose an appropriate topic, organization, speech purpose and delivery, and critical analysis of discourse. Word study, effective language use, effective non-verbal skills and critical listening skills are also stressed.

½ yr. = ½ HS Credit

Introduction to the Gothic Novel EOY next offered in 2023-24

This one semester course will follow Gothic Literature from the origin in 1764 to the present. Novels may include The Castle of Otranto by Horace Walpole, Mary Shelley's Frankenstein and Bram Stoker's Dracula. Novellas and short stories by Joseph Sheridan LeFanu and Edgar Allan Poe will be included as well. The present will be represented through the study of texts by Shirley Jackson and Steven King.

½ yr. = ½ credit

Creative Writing EOY next offered in 2022-23

In this workshop based class, students will focus on improving their writing skills by creating their own short stories, poetry, one act plays and memoirs. Through teacher and peer feedback each student will develop a portfolio which showcases their creative writing talents.

½ yr. = ½ credit

Introduction to Greek Mythology EOY next offered in 2022-23

Explore the rich and complex world of Greek mythology in this introductory course. Become acquainted with the family tree of Greek gods and goddesses beginning with Zeus, god of sky and lightning, and Hera, his wife and sister. We will explore several of the most widely read myths including but not limited to: “The Myth of Pandora’s Box”, “The Myth of Theogony”, “The Myth of Daedalus and Icarus” and “The Myth of Prometheus”. We will also read the epic poem “The Odyssey” which chronicles the twenty year journey of a man who is heavily influenced by the gods.

½ yr. = ½ credit

Lights, Camera, Action! The Study and Creation of Filmmaking EOY next offered in 2023-24

Students will watch a series of films and study the following filmmaking components: cinematography, lighting, set design, costuming, editing, and special effects. Students will create a small film utilizing the learned components.

½ yr. = ½ credit

Playtime! The study of Plays and Performances EOY next offered in 2023-24

Students will act out a number of plays and study the following components: blocking, characterization, design, directing, costuming, makeup, and acting. Students will also produce their own final One Act Play.

½ yr. = ½ credit

Poetry and Song Lyric Analysis EOY next offered in 2023-24

Students will analyze poetry and song lyrics, learn about individual poets and songwriters as well as compare and contrast songs with current or life events. Students will also write their own poetry and songs.

½ yr. = ½ credit

The Art of Storytelling: Exploring the Graphic Novel EOY next offered in 2022-23

Students will read several graphic novels and analyze the relationship between art and storytelling. Class discussions will invite students to consider how illustrations can contribute to their understanding of the plot, characters and theme of a novel. Using the graphic novels that they have studied in class as models, students will work in small groups to draft their own graphic novels. They will complete the project in stages, revising along the way based on peer and teacher feedback, until they have produced a graphic novel that they can present to their classmates.

½ yr. = ½ credit

Fantastic Fiction: The Magical World of YA Fantasy EOY next offered in 2023-24

Students will analyze contemporary YA Fantasy short stories and novels to consider the elements of effective worldbuilding. Students will compare and contrast the alternate worlds presented by fantasy novels and analyze what those worlds can help teach us about our own,

½ yr. = ½ credit

Strategies for Success - Cayuga Community College

On Course is designed to increase students’ success in school and life. The purpose of the course is for students to be able to understand, evaluate, and plan to navigate critical aspects of their lives. This course will help students achieve success in school 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 academic expectations, using many proven strategies for creating academic, professional and personal success. **This elective does not count as a senior English credit.**

*½ yr. = 3 College Credits
½ yr. = ½ credit*

Yearbook I

This course is designed to teach students all aspects of yearbook production, starting with the initial planning of writing, editing, advertising, promotion and sales and what makes a quality yearbook. All high school students are eligible to take this elective. **This elective does not count as a senior English credit.**

½ yr. = ½ credit

Family & Consumer Science

The following courses are available based upon enrollment.

Food & Nutrition

This course is a one semester course designed to acquaint high school students with basic nutrition principles and food preparation techniques. Laboratory experiences will be an integral part of this course. In addition, students will also become familiar with safety and sanitation guidelines, health issues related to nutrition, managing the food dollar, career opportunities, and basic meal etiquette. Skills in mathematics, communication, science and technology are reinforced in this course.

½ yr. = ½ credit

Food Preparation

Food Preparation is a one semester in-depth course in food preparation. Students will analyze the concept of food preparation for daily and special events. They will problem solve the various aspects of management of a meal and apply basic consumer economic skills. This course is divided into four main content areas: history of food preparation, current food issues, skills and techniques of food preparation, and careers in food preparation and nutrition. Skills in mathematics, communication, science, planning and technology are reinforced in this course. **You must have successfully completed either, Foods and Nutrition or have instructor's permission to be enrolled in this class.**

½ yr. = ½ credit

Early Childhood EOY next offered 2023-24

Have you ever thought that working with children is something you might want to do? The Early Childhood Education course will introduce you to many of the careers in early childhood education while teaching practical techniques to guide children through a variety of daily experiences in a safe, educational way.

The Early Childhood Education course will provide students with foundational knowledge, skills, and experiences necessary for successful careers in early childhood, education, and related services. Students will learn about various programs available to address the needs of young children and their families and learn to assess their suitability for working in these settings. This course invites all students to apply the process skills of communication, leadership, management, and thinking. The integration of these process skills into each of the content topics is a fundamental component of the Early Childhood Education course.

½ yr. = ½ credit

Parenting EOY next offered 2023-24

Parenting is the most rewarding job of your life! The parenting course will provide students with a broad foundation of the knowledge, skills, and attitudes necessary to promote quality growth and development of children and families in school, community and the workplace. Baby egg project, planning birthday parties, selecting age appropriate toys, influences of the media, baby-proofing, and much more will be discussed.

Parenting and parent education, including parenting styles and practices, discipline, parent-child interactions, attachment, and the family context with an emphasis on professional implications for promoting child health and well-being. Course discussions will be based on decisions about parenting, reproduction and family planning, prenatal care and childbirth. After taking this course you will never look at parenting in quite the same way again!

½ yr. = ½ credit

Life Hacks 101 – (Taught in conjunction with Tech) EOY next offered 2022-23

This course, taught by multiple faculty, will focus on providing information, tools and strategies to help students as they make the transition to living on their own. Topics to be covered will include (but are not limited to) fitness and exercise, healthy lifestyles, cooking, basic home repair and using household tools.

½ yr. = ½ credit

Foreign (World) Languages

Although the minimum standard for graduation is one year, it is highly recommended that students complete 3 years of a language. Entrance into many colleges depends upon this extended study. It is also necessary for the NYS Regents Diploma with Advanced Designation.

French I*

Students will learn and master basic French words and phrases, giving them elementary French vocabulary and basic conversation skills. Students will develop skills aligning with the standards of speaking, reading, writing, listening and understanding in the target language. Upon completion of this course, students will fulfill the NYS “Checkpoint A” Curriculum and be prepared for the next level of foreign language study.

1 yr. = 1 credit

Spanish I*

Students will learn and master basic Spanish words and phrases, giving them an elementary Spanish vocabulary and basic conversation skills. Students will develop skills aligning with the standards of speaking, reading, writing, listening and understanding in the target language. Upon completion of this course, students will fulfill the Regents “Checkpoint A” Curriculum and be prepared for the next level of foreign language study.

1 yr. = 1 credit

***These courses are intended to be completed at the eighth grade level and the students must pass both the course and final exam in order to earn 1 credit for graduation. *These courses will only be offered at the high school on an as-needed basis for students who were unsuccessful in the eighth grade or transferred from another school district where the language is not offered.**

French II

Prior to French II, the student will have established a basic French vocabulary and conversational ability. This course takes the student on a more advanced track, introducing him/her to new vocabulary and expressions, more intensive French grammar, cultural topics, and proficiency in speaking and listening.

1 yr. = 1 credit

French III

This course enables the Cato-Meridian student to meet the new NYS Education Standards in French and is one of the requirements necessary for an Advanced Regents Diploma. The first marking period reviews material learned in the previous two years' study. In the third level, the student is expected to learn and master new vocabulary words, idiomatic expressions and higher level grammar. Skills in speaking, essay writing, reading and listening comprehension are the required skills for success. Teachers, under the direction of Cayuga-Onondaga BOCES, compose an annual final examination based on the new state mandates in French foreign language study. This exam is written in the same format as the former Regents Comprehensive Examination in French. Third year students are required to score 65% or higher on the Checkpoint B final exam for "Regents" credit.

1 yr. = 1 credit

CCC Elementary French 101 102 (Fr IV)

Each half year course offered through Cayuga Community College is designed for students seeking to become proficient in the target language with the goal to achieve fluency. In this course, students will complete units based on French history, culture, and language. These courses introduce the student to higher level grammar, writing, vocabulary, and conversation. Students will be expected to speak, listen, read and write in the target language. Each semester, the student will receive 3 CCC credits. To enroll in these courses, the student must have completed three successful years of French including the Checkpoint B Final Examination. It is also expected that the student will have maintained an 85% average and have earned instructor's recommendation.

*1 yr. = 7 College Credits
1 yr. = 1 HS Credit*

CCC Intermediate French 201 and 202 (FrV)

These courses, offered through Cayuga Community College, are designed to increase a student's proficiency in listening, reading, writing, and understanding in the target language. This is achieved through advanced grammar, authentic readings, listening to native speakers, internet and CD activities, DVD programming and virtual field trip opportunities that demonstrate French civilization, people and culture. It is recommended that the student have four highly successful years of high school French. Students will be expected to speak, read, write, and understand in the target language. Each semester, the student will receive 3 CCC credits.

*1 yr. = 7 College Credits
1 yr. = 1 HS Credit*

Spanish II

Prior to Spanish II, the student will have established a basic Spanish vocabulary and conversational ability. This course takes the student on a more advanced track, introducing him/her to new vocabulary and expressions, more intensive Spanish grammar, cultural topics, and proficiency in speaking and listening.

1 yr. = 1 credit

Spanish III

This course enables the Cato-Meridian student to meet the new NYS Education Standards in Spanish and is one of the requirements necessary for an Advanced Regents Diploma. The first marking period reviews material learned in the previous two years' study. In the third level, the student is expected to learn and master new vocabulary words, idiomatic expressions and higher level grammar. Skills in speaking, essay writing, reading and listening comprehension are the required skills for success. Teachers, under the direction of Cayuga-Onondaga BOCES, compose an annual final examination based on the new state mandates in Spanish foreign language study. This exam is written in the same format as the former Regents Comprehensive Examination in Spanish. Third year students are required to score 65% or higher on the Checkpoint B final exam for "Regents" credit.

1 yr. = 1 credit

CCC Introductory Spanish 101 and 102 (Spanish IV)

Each half year course offered through Cayuga Community College is designed to increase a student's proficiency in the target language following the LOTE foreign language skills: speaking, listening, reading, writing, and understanding. This is achieved through grammar, authentic readings, listening to native speakers, and internet and CD activities in the target language, as well as DVD programming and virtual field trip opportunities that demonstrate Hispanic civilization, people and culture. Students will be expected to attempt to speak, read, write, and listen and understand in the target language. Each semester, the student will receive three college CCC credit hours. Cato-Meridian students have the opportunity to receive six college credit hours upon completion of these two courses.

Prerequisites:

1. The student must have completed three successful years of Spanish including the Checkpoint B Final Post Assessment Exam. The student must have maintained an 85% average or have instructor recommendation.

2. It is required that any student taking CCC Advantage College Courses follow the attendance policy guidelines set by the college to receive "college credit". The student may have no more than 5 "illegal" absences per semester or be removed from the class. Failure to do so will result in course failure.

*1 yr. = 7 College Credits
1 yr. = 1 HS Credit*

CCC Intermediate Spanish 201 and 202 (Spanish IV)

Each half year course offered through Cayuga Community College is designed to increase a student's proficiency in speaking, listening, reading, writing, and understanding in the target language. This is achieved through advanced grammar, authentic readings, listening to native speakers, internet and CD activities, DVD programming and virtual field trip opportunities that demonstrate Hispanic civilization, people and culture. It is recommended that the student have three highly successful years of high school Spanish including CCC 101-102 or an approved Spanish 4 class. Students will be expected to speak, read, write, listen and understand in the target language. Each semester, the student will receive three college CCC credit hours. Cato-Meridian students have the opportunity to receive six college credit hours upon completion of these two courses.

Prerequisites:

1. The student must have completed three successful years of NYS LOTE Spanish including the Checkpoint B Final Post Assessment Exam which serves as the college "entrance exam" for the college program AND completed both CCC 101 and 102 Elementary Spanish Courses through Project Advantage. The student must have maintained an 85% average or 3.0 GPA and/or have instructor recommendations.
2. It is required that any student taking CCC Advantage College Courses follow the attendance policy guidelines set by the college to receive "college credit". The student may have no more than 5 "illegal" absences per semester or be removed from the class. Failure to do so will result in course failure.

*1 yr. = 7 College Credits
1 yr. = 1 HS Credit*

Other Language options:

Cayuga BOCES offers online study in Sign language or Latin. Online study requires independence. Please see the counselor for more information on this, if you are interested.

Health

All students are required to take one semester of health before graduation.

Health *

This half-year course places emphasis on the wellness approach to good health by stressing the need for balance in social, physical and emotional development. Health behaviors that can reduce personal risks are discussed and students gain access to valid health information, health products, and services. Students are taught the importance of evaluating personal health risks. The importance of planning for a healthy future is highlighted and opportunities for self-reflection on personal health issues and concerns are provided. Students participate in health related school projects and in individual and group activities /assignments. An examination of stress, drugs, major diseases, nutrition, weight control, sexuality, aging, healthy relationships, First Aid and safety including: mandatory Hands Only CPR and other topics related to health and fitness will be addressed. *Students are required to pass this ½ year of health class in order to graduate.

½ yr. = ½ credit

Health Electives (open to all students)

Bones, Bodies and Bandages EOY next offered in 2022-23

The course will provide students with the basics of anatomy and physiology of the skeletal and muscular systems. The functions of each system and how to care for them will be covered. Students will examine the effects of health behaviors on the body and develop injury prevention and management strategies for personal health. Students will have the opportunity within the curriculum to earn dual certification in two courses taught by an American Red Cross Instructor: Adult CPR/AED and First Aid Safety. This course will provide essential background knowledge to students who are interested in pursuing a career in sports medicine, athletic training, and health careers.

½ yr. = ½ credit

Human Sexuality EOY next offered in 2023-24

Learn appropriate medically accurate information on a broad set of topics related to sexuality, including human development, relationships, decision-making, abstinence, contraceptives and disease prevention. This course will be separated into 7 topic areas: anatomy and physiology, puberty and adolescent development, sexual identity and related terms, pregnancy and reproduction, sexually transmitted infections and HIV, healthy relationships and personal safety. This course is designed to offer all students exposure in the form of facilitated discussion, small group activities and self-reflection about sexuality topics.

½ yr. = ½ credit

Explore Health Careers for the Future EOY next offered in 2023-24

Whenever the field of medicine is mentioned, people think about doctors and nurses. However this is not the case now. In recent years, the field has grown. Some examples include Medical Secretary, Medical Transcriptionist, Medical Assistant, Cast technician, Phlebotomist as well as Eastern medicine disciplines such as acupuncturists, homeopaths, massage therapy and hypnotherapists. This course is designed to give students the opportunity to explore a variety of healthcare professions including careers that do not require advanced degrees.

Career investigation activities will enable students to learn and understand a variety of career clusters, attributes, and aptitudes needed in particular types of occupations and careers. The students will also learn how attitudes and behaviors could lead to a match with certain careers. This course will be given in conjunction with the American Red Cross Responding to Emergencies course.

½ yr. = ½ credit

Positive Psychology EOY next offered in 2022-23

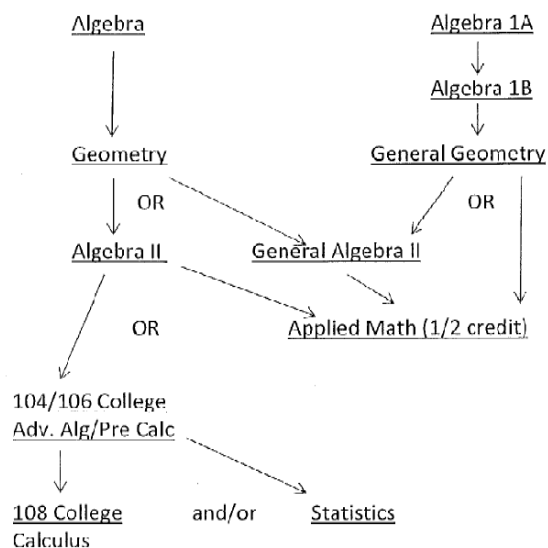
Positive psychology is the new form of psychology. It emphasizes the positive influence in a person's life. This theory is based on the belief that happiness is derived from both emotional and mental factors.

This course provides an introduction to the study of topics related to happiness and well-being, positive emotions and thinking, as well as identifying character strengths and virtues. Students will be able to identify the basic premises of Positive Psychology and analyze criticisms of the field, as well as identify different ways to define and measure happiness and variables that are related/unrelated to happiness and well-being. Students will be able to describe the history of Positive Psychology and its relationship to traditional psychology. They will be able to identify the difference between values and character strength, using signature strengths in news and also identify the components of enabling institutions. Students will demonstrate comprehension of research and current theories in Positive Psychology and will be able to employ Positive Psychology interventions to increase personal well-being.

½ yr. = ½ credit

Mathematics

Students must take a minimum of 3 years of math. Please refer to the Math Flow Chart below to guide you in your selection.



Which math course should I take?

Find the course you are currently taking and then follow the arrow to the next course you should take. Where there is an "OR" you have a choice depending on your current average in the class, your goals for college, and recommendation by the teacher. If you have any questions regarding which course to take next, speak with your current math teacher or the counselor.

Algebra 1A

Algebra 1A is the first year of a stretch course administered over a 2 year period. The Common Core Assessment will be administered in June of the second year. Volume 1 of the Algebra 1 text from Houghton Mifflin Harcourt will be completed in this course. The topics covered are: quantitative reasoning, algebraic and function models, patterns & sequences, linear functions and forms of equations, linear inequalities, multi-variable and one-variable data, linear modeling & regression, solving & modeling linear systems, and piecewise functions.

Students must pass this course to earn the credit toward graduation.

1 yr. = 1 credit

Algebra 1B

Algebra 1B is the second year of the stretch course administered over a 2 year period. The Common Core Assessment will be administered in June of this year. Volume 2 of the Algebra 1 text from Houghton Mifflin Harcourt will be completed in this course. The topics covered are: rational exponents and radicals, geometric sequences and exponential functions, exponential equations and models, polynomial operations, graphing quadratic functions, connecting intercepts, zeros and factors, using factors and roots to solve quadratic equations, models of functions, and functions and inverses. Students will also review all material from the first year and prepare for the NYS Regents Exam. **Students must pass this course and the NYS Regents Exam to graduate.**

1 yr. = 1 credit

Algebra I

Algebra I is the first course in a 3-year sequence. The Common Core Assessment will be administered in June of this year. The following topics will be covered: relationships between quantities and reasoning with equations and their graphs, descriptive statistics, linear and exponential functions, polynomial and quadratic expressions, equations, functions, and a synthesis of modeling with equations and functions. A lab meets every other day to support this course. **Students must pass this course and NYS Regents Exam to graduate.**

1 yr. = 1 credit

Geometry

Geometry is the second year course in the Common Core “Story of Functions”. In this course, congruence and similarity are studied from the perspective of transformations and constructions. In addition to congruence and similarity, students will also study trigonometry, three-dimensional geometry, circles, and connecting algebra and geometry through coordinates. Students enrolled in this course are required to attend a lab class every other day to support the curriculum. All students are required to take the Common Core Geometry Exam in June. Students must pass this course and NYS Regents Exam to work towards the Advanced Regents Diploma. **Prerequisites:** passing the Algebra I Regents and 75% or higher success in Algebra I.

1 yr. = 1 credit

General Geometry

General Geometry is a Non-Regents course emphasizing geometric relationships, constructions, locus of points, proofs at an introductory level, transformational and coordinate geometry. A local final exam will be administered in June. **Prerequisite:** successful completion of either Algebra I or Algebra I-B.

1 yr. = 1 credit

Algebra II

This is the third year of the 3-year sequence. The Regents exam will be administered in June of this course. The topics are polynomial, rational and radical relationships, trigonometric functions, exponential and logarithmic functions as well as inferences and conclusions from data. A lab meets every other day to support this course. **Prerequisites:** passing the Geometry Regents and 75% or higher success in Geometry. **Students must pass this course and NYS Regents Exam to earn the Advanced Regents Diploma.**

1 yr. = 1 credit

General Algebra II

This course is focused on sharpening math skills for college bound students. They will **NOT** be taking the NYS Regents exam at the end of this course; students will take a local final upon course completion. The topics covered may consist of linear equations and systems, linear exponential and logarithmic functions, sequence and series, quadratic functions and transformations, radicals & the quadratic formula, complex numbers, and polynomial & rational functions. **Prerequisites:** successful completion of Regents Geometry or General Geometry.

1 yr. = 1 credit

College Math 104 – College Algebra & Trigonometry

3 College Credits – Cayuga Community College

College Math 104 – College Algebra & Trigonometry is a college credit bearing course through Cayuga Community College’s Advantage Program. This course follows the syllabus provided by Cayuga Community College, introducing 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. There is an emphasis on applications of trigonometry to right and oblique triangles and vectors. Students will take the Math 104 final exam from Cayuga Community College as their final exam for this course. **Prerequisite:** Successful completion of the Algebra II course and Regents exam.

*1/2 yr. = 1/2 credit
3 College Credits*

College Math 106 – Pre-Calculus
3 College Credits – Cayuga Community College

College Math 106 – Pre-Calculus completes the study of algebraic and trigonometric skills necessary for moving toward advanced level mathematics. 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 Moiré’s theorem are used to study and help in graphing of equations. The course introduces series and sequences (arithmetic and geometric), the binomial theorem, and mathematical induction. Students will take the Math 106 final exam from Cayuga Community College as their final exam for this course.

Prerequisite: Successful completion of College Math 104.

*1/2 yr. = 1/2 credit
3 College Credits*

College Math 214 - Statistics
3 College Credits - Cayuga Community College

Statistics – Statistics is a college course offered to juniors or seniors who have successfully completed College Math 104. Students may take this simultaneously with College Math 106 or Calculus. Curriculum includes exploring data: describing patterns, sampling and experimentation; planning and conducting a study, anticipating patterns: exploring random phenomena using probability and simulation, and statistical inference: estimating population parameters and testing hypotheses. This course has a 15 student limit and seniors will take precedence. **Prerequisite:** Successful completion of College Math 104 with a minimum score of C+.

*1/2 yr. = 1/2 credit
3 College Credits*

College Math 108 – Calculus
4 College Credits – Cayuga Community College

Math 108 – Calculus is a college credit bearing course through Cayuga Community College’s Advantage Program. 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. Students will take the Math 108 final exam from Cayuga Community College as their final for this course. **Prerequisite:** Successful completion of Math 106.

*1 yr. = 1 credit
4 college credits*

Math Electives (open to all students)

Applied Math

Applied Math 4 is a Non-Regents course designed to prepare juniors/seniors for the SAT exam, college placement exams, or ASVAB, and to provide a foundation for the first-year college math course. In addition, students will learn about various aspects of personal finance to prepare them for independent living and sound financial decision making. A local final exam will be administered in June. This course will meet every other day for the school year.

1yr. = ½ credit

Programming EOY next offered in 2022-23

This project-oriented, introductory level course is for students who desire to learn more about computer programming and its applications. The course will begin with Scratch coding which introduces students of all ages to programming by allowing them to create a visual story with pre-coded movements, sounds, colors and characters. Scratch will lay the foundation for CodeHS, which will be the other component of the course. CodeHS is a flipped-classroom type of set up and students will be writing code that is similar to the languages of C++, Python and Java. The ins and outs of typing accurate, readable code while building understanding of basic programming is one of the main features of CodeHS.

Prerequisite: Successful completion of Geometry and the course has a maximum capacity of 10 students.

½ yr. = ½ credit

Programming II EOY next offered in 2023-24

This course will be self-taught which allows each student to choose the specific coding language he or she wishes to learn and become proficient with, as well as work at a speed which feels comfortable. Competent and driven students may master two languages, as opposed to only one. Alternatively, a student may choose to learn some of the basic 2-4 different coding languages so as to gain experience with a greater variety of the programming languages. The instructor will help each student decide which choice to make at the beginning of the course. **Prerequisite:**

Successful completion of Programming and the course has a maximum capacity of 10 students.

½ yr. = ½ credit

Music

Concert Band

Many styles of music are taught. Individual members are expected to practice their music independently. Concert Band meets an average of two times per week, and prepares students for two annual school concerts. This organization is the ensemble from which members are selected to participate in the local All-County Music Festivals and NYSSMA sponsored solo festivals. **This course fulfills ½ of the credit for Fine Arts required for graduation.**

1 yr. = ½ credit

Chorus

Several styles of music and performance are taught. Individual members are expected to practice their music independently and memorize all music for performances. Chorus meets an average of two times per week. This group prepares for two annual school concerts. Chorus is the ensemble from which members are selected to participate in the local All-County Music Festival and the Chamber Singers. **This course fulfills ½ of the credit of Fine Arts required for graduation.**

1 yr. = ½ credit

Musical Theater/Drama Class EOY next offered in 2023-24

Students form understandings of the history of musical theater and the impact it has had as society has evolved. Students will understand that the circumstances in which composers and lyricists wrote contribute to the content and structure of their shows. Students will form understandings of contemporary musical theater performance as well as have the opportunity to work on musical theater performance, studying both repertoire of their choice and one that is teacher selected. Students will analyze music, lyrics, structure and style of musical theater repertoire as well as understand that an individual and disciplined approach to rehearsal and practice leads to improved performance.

1 yr. = ½ credit

Piano Lab 1 EOY next offered in 2022-23

Open to students with either no piano experience or a small amount, this class is for students who have an interest in learning piano, songwriting, and learning more about the way music works the way it does. Students will work both independently and will be assisted individually as well as participating in group collaboration.

1/2 yr. = ½ credit

Music Theory EOY next offered in 2023-24

The objectives of this course include: achieving a workable knowledge of the basic rules and principles of music; studying keys, clefs, time signatures, rhythmic patterns, terms, chords, and many more music tools; training the ear to recognize sounds individually and in combinations; improving the ability to read and perform music through the use of the voice and the guitar, piano, or other select instruments; learning the fundamentals of arranging and harmonizing; exploring historical music periods; exploring various careers in music.

This course is highly recommended for music students hoping to study music beyond high school, either as a music major or minor in college or a performer. **Prerequisite:** Band and/or chorus participation, independent study of the voice or musical instrument, or permission of the teacher.

1 yr. = ½ credit

Sound Recording Technology EOY next offered in 2022-23

Students will learn the history of sound recording and will use programs such as Soundtrap to create their own music compositions, create their own podcasts, and compose background music/ sound FX for short films.

1 yr. = ½ credit

Physical Education

Physical Education

New York State requires that all students participate in a physical education program each year of high school which is required to meet the 3 standards set forth by the New York State, which is: Standard 1 – Personal Health and Fitness; Standard 2A – A Safety and Healthy Environment; and Standard 3 - Resource Management. It is also designed to promote the physical, social and emotional wellbeing of the students by offering a wide range of activities and experiences, promoting opportunities for student planning and evaluation. The curriculum provides life-long activities to add to the overall interest and enjoyment in the physical education program. Per NYS regulations, all physical education classes are co-ed.

The objective of the course is to promote total physical fitness through the use of team, individual, recreational and healthy activities. At all levels teaching will include the basic skills, safety, and rules of the activity. Team activities included in the curriculum are: soccer, flag football, volleyball, basketball, floor hockey, softball, lacrosse, team handball and other healthy recreational sports. In addition, individual activities will also be included in the course providing students with the opportunity to develop individual skills at their own pace. Some examples of activities that will be offered are: track, weight training, golf, tennis, badminton, racquetball, aerobics, dance, cross country skiing, archery, and bowling.

1 yr. = 1/2 credit

Science

Students must take a minimum of 3 years of science. If you have any questions about the course your student should take please feel free to call the counseling office or your student's teacher.

Living Environment

Living Environment is a required course, which follows the NYS Core Curriculum. It is a Regents level course with one daily class session and a required lab section every other day. The lab coincides closely with the lecture, and stresses graphing, organizing data, and interpretation of observations. 1200 minutes of lab work must be successfully (65%) completed and on file in order to take the Living Environment Regents Exam. Topics include; the scientific method, plant and animal cell structure and function, ecology, organ systems, disease, DNA, and man's effect on the environment.

1 yr. = 1 credit

Earth Science

Regents Earth Science is a lab-oriented course that follows the NYS Core Curriculum and is offered primarily to 10th grade students, culminating with the New York State Regents exam for Earth Science at the conclusion of the course. Major areas of study include the processes of change, mineralogy, meteorology, astronomy, and historical geology. Laboratory experiences are stressed in this course and the student must satisfactorily complete all lab assignments. Students who successfully complete this course should go on to another Regents course.

1 yr. = 1 credit

Geology 110

4 college credits – Cayuga Community College

This is a general survey course dealing with the basic principles of Physical Geology, that will give students college credit while meeting State Regents requirements as well as to allow upperclassmen the chance to gain college credit. Emphasis is placed on geological structure, tectonics, earthquakes, volcanism, streams, ground water, glaciation, weathering, and erosion. Laboratory exercises stress rock and mineral identification, topographic and geologic map interpretation, and aerial photography. Field trips are designed to demonstrate local geological features. There will be 3 field trips in the first half of the year. The other half of the year will address the regents Earth Science standards and will prepare students for the Earth Science Regents exam.

Requirements: 9th grade students must be recommended by their 8th grade science teacher and must have received above 90 on the Living Environment Regents AND a 90 in class. In addition, they need to have received a 90 on the Algebra I Regents and a 90 average in the 8th grade advanced math class. Upperclassmen need to have passed Chemistry or Physics and have had an 85 on the Earth Science Regents.

½ yr. = ½ hs credit - 4 college credits

Geology 111

4 college credits – Cayuga Community College

A general survey course dealing with the basic principles of historic geology. Major emphasis placed on the sequence of events and geologic forces influencing the formation of rock structures and the evolution of life forms. Topics include crustal collision, deformation, geosynclines, cratons, mobile belts, mountain building, sedimentation, evolution and paleontology. Prerequisites: successful completion of Geology 110.

½ yr. = ½ hs credit - 4 college credits

Chemistry - Regents

Chemistry is a challenging course that requires you to use both your previous science as well as math knowledge. This is a Regents level course with one daily class session and a required lab section every other day. The lab coincides with the lecture, and stresses graphing, organizing data, interpretation of observations, applying science concepts, writing reports, and problem solving. 1200 minutes of lab work must be successfully (65%) completed and on file in order to be eligible to take the Chemistry Regents exam. Topics include: atomic concepts, the periodic table, moles and stoichiometry, chemical bonding, physical behavior of matter, kinetics and equilibrium, organic chemistry, oxidation-reduction, acids, bases and salts, and nuclear chemistry. **Criteria:** Successful completion of both the course and Regents exam in Living Environment, Earth Science, concurrent enrollment in or successful completion of Algebra II/Trig. or General Algebra II/Trig.

*1 yr. = 1 credit
11th – 12th Grade*

General Chemistry

This course will introduce students to basic chemical concepts such as classification of matter, the periodic table, use of chemical resources and the chemistry of everyday things. **Criteria:** Successful completion of Regents Living Environment and Earth Science.

*1 yr. = 1 credit
11th-12th Grade*

Physics – Regents

Physics is a challenging course that requires you to use both your previous science as well as math knowledge. It is a Regents level course with one daily class session and a required lab section every other day. The lab coincides with the lecture, and stresses graphing, organizing data, interpretation of observations, applying science concepts, writing reports, and problem solving. 1200 minutes of lab work must be successfully (65%) completed and on file in order to be eligible to take the Physics Regents exam. Topics include; mechanics, electricity, waves, and the standard model of the atom. **Criteria:** Successful completion of both the course and Regents exam in Living Environment, Earth Science, Chemistry, Integrated Algebra and Geometry.

*1 yr. = 1 credit
11th-12th Grade*

Principles of Technology /Applied Physics (MST)

Principles of Technology is a course in applied physics for those who plan to pursue careers as technicians or who just want to keep pace with the advances in technology. It blends an understanding of basic principles with practice in practical applications. It will give you a firm foundation for understanding the technology that surrounds you today as well as the technology of tomorrow. Principles of Technology I is made up of 7 units focusing on force, work, resistance, energy, rate, and power. This course will satisfy one credit for Math, Science, or Technology. *Suggested Grade Level: 10 - 12*

1 yr. = 1 credit

Environmental Studies EOY next offered 2023-24

This course will introduce students to the relationships between living organisms and their environments. Students will learn about ecosystem stressors that occur naturally and by man, effects of extreme weather changes, the history of human population growth and its probable future, biodiversity, ecosystem cycles, global warming and resource management. The labs are integrated into lecture time and will involve “hands-on” experiments. **Criteria:** Successful completion of Living Environment and Earth Science.

*1 yr. = 1 credit
11th-12th Grade*

Astronomy EOY next offered 2023-24

Astronomy covers both the historical and modern understanding of the nature of the universe and our place within it. Class projects include stargazing, telescopic viewing of planets, and astrophotography. The course will cover topics such as the big bang, supernovas, and the formation of black holes. The course is conducted at an advanced level. **Criteria:** Successful completion of Chemistry and Algebra II/Trig.

1 yr. = 1 credit

AP Biology EOY next offered in 2022-23

Study the core scientific principles, theories, and processes that govern living organisms and biological systems. You’ll do hands-on laboratory work to investigate natural phenomena. Units include: Cell structure and function, Heredity, Gene expression, Natural Selection and Ecology. It is the equivalent of a two-semester college Biology course. Students must take the AP exam at the end of the year. There is a fee for the exam.

1 yr. = 1 credit

AP Chemistry EOY next offered in 2023-24

Learn about the fundamental concepts of chemistry including structure and states of matter, intermolecular forces, and reactions. You’ll do hands-on lab investigations and use chemical calculations to solve problems. Units include: Atomic structure and properties, Chemical reactions, Kinetics, Thermodynamics, Equilibrium, and Acids and Bases. It is the equivalent of a two-semester college Chemistry course. Students must take the AP exam at the end of the year. There is a fee for the exam.

1 yr. = 1 credit

Science of Fitness EOY next offered 2023-24

This half year course offers a scientific explanation as to how exercise and nutrition enable people to live a higher quality life, with a focus on mitochondrial cell energy as the center of athletic performance, physical fitness and disease prevention. Topics include: cardiovascular fitness, weight training, and flexibility.

½ yr. = ½ credit

Forensic Science EOY next offered 2023-24

This half year course covers the science behind crime scene investigations. Separating media myths from real world practices, students will get hands-on experiences in fingerprinting, hair & fiber analysis, chromatography, and blood analysis.

½ yr. = ½ credit

Science Fiction and Mythology EOY next offered in 2022-23

This course would cover the history of myth, how science is portrayed in reading, writing, culture and film. Student designed experiments could test and evaluate concepts across different areas of science (IE - Mythbusters).

½ yr. = ½ credit

Social Studies

The purpose of the Cato-Meridian Social Studies Department is to provide students with the necessary historical foundation to participate in today's society as an active citizen. The Social Studies Department reinforces skills such as time-management and written expression while instilling a sense of responsibility and a strong work ethic in students. These core values are sought by all employers and are applicable to any profession. Each course follows the specific guidelines created by the New York State Education Department.

2 years of Global, 1 year of US History, and half year each of economics and participation in government are required for graduation.

Global History and Geography 9

The 9th grade year of Global History and Geography is the first year of a two-year study of Global History. The course emphasizes World History and Geography from prehistoric times through the 1500's. This course is a graduation requirement and every student must complete it satisfactorily.

1 yr. = 1 credit

Global History and Geography 9 Honors

While this course will cover the curriculum of Global History and Geography 9, it will also offer more rigorous development of critical writing and thinking skills which will be useful in advanced courses. **Criteria:** Teacher Recommendation, an average final grade of 90% or above in prior year social studies course(s).

1 yr. = 1 credit

Global History and Geography 10

The course emphasizes world history from the 1750's through the present day. It is an extension of Global 9, although Global 9 material will not end up on the culminating Regents Exam in June. The student must pass the course in order to graduate.

1 yr. = 1 credit

Global History and Geography 10 Honors

This course will follow the same theme as Honors Global History and Geography 9 Honors and is meant to follow that course in an honors sequence. This course will follow the curriculum of Global History and Geography 10, but will offer more rigorous development of critical writing and thinking skills which will be useful in advanced courses. Students will take the Global History and Geography Regents exam at the end of this course as they would be for Global History and Geography 10. **Criteria:** Students must have a minimum final average of 90% in Global History 9 or 85% in the Global History 9 Honors class to be considered for this class as well as teacher recommendation.

1 yr. = 1 credit

U.S. History and Government 11

United States History is a full year course that traces the roots of American colonization throughout the formation and growth of our nation to the present day. There is a strong emphasis on Constitutional and legal traditions. The course ends with a required Regents exam which counts as the final exam. Students must pass the course in order to graduate.

1 yr. = 1 credit

AP United States History and Government

The Advanced Placement course in United States History and Government is an elective offered to students in their junior or senior year. Students take this course in the hopes of receiving college credit depending on how they score on the AP US History Exam in May (**a fee is charged to take this exam**). Students will also be prepared for and will take the US History Regents Exam in June (a requirement for graduation). **Criteria:** Teacher Recommendation is required, an average final grade of 90% or above in prior year standard social studies course (s), or 85% or higher in prior year's honors course, 85% or higher on previous year's Regents exam in Social Studies. This course will require summer readings.

1 yr. = 1 credit

Economics 12

This is an introductory course of economic concepts. The course covers personal finances. It also covers the individual, the firm, and the product in the economy (microeconomics) as well as a section on influencing growth, inflation, and unemployment in the economy (macroeconomics). The course also tackles concepts in comparative economies, finance, and trade as time permits. This is a required course students **must** pass in order to graduate.

½ yr. = ½ credit

Economics 12 Honors

The honors section of 12th grade Economics offers a more in-depth study of economic principles. Students can expect a course designed to prepare them in the areas of: how economic thought has influenced historical events, differing economic theories, how the economic systems of the United States and European Union function, key micro and macroeconomic principles, college level research assignments.

This is a required course which the student **must** pass in order to graduate. **Criteria:** Teacher Recommendation, an average final grade of 90% or above in prior year standard social studies course(s), or 85% or higher in prior honors level course.

½ yr. = ½ credit

Participation in Government 12

This course covers the basics of a citizen's interaction with the government. Topics include: the tasks and workings of each level of government, comparisons of world governments, US Citizenship and the naturalization process, the US political process from nomination to election including the voting process, the US Justice system and how it works, legal rights, responsibilities and obligations, analysis of current issues of the day, media bias and contemporary and debatable issues.

This is a required course, which the student **must** pass in order to graduate. **This course also requires 10 hours of community service.**

½ yr. = ½ credit

Participation in Government 12 Honors

Students who take the honors section of Participation in Government 12 can expect to become proficient in the above topics as well as: a history of United States and world governments, developing a political stance through analysis and debate of current issues, composing college-level position papers, analyzing current events and posting to an online medium, and understanding the workings of government by participating in mock assemblies.

This is a required course, which students **must** pass in order to graduate. **Criteria:** teacher recommendation and either an average of 90% or above in US History and Government 11 or an average of 85% or above in AP US History and Government.

In order to pass the course, students must also: Complete 10 hours of teacher-approved community service and complete a corresponding project as well as attend at least one government meeting.

½ yr. = ½ credit

Social Studies Electives (open to all students)

AP European History offered based on demand

This is a full year course that serves as an introduction to European History from the time of the Black Death (c. 1350) to the present day. This course places an emphasis on reading and writing at the collegiate level and is perfect for the student who wants to explore Global 9 and 10 content from a European perspective in greater depth. Students will take the Advanced Placement Exam in May (**a fee is charged to take this exam**). The course is offered to juniors and seniors

1 year = 1 credit

Introduction to Psychology

Scientific research has been one of the great drivers of progress in human history, and the dramatic changes we have seen during the past century are due primarily to scientific findings. In this course we will examine how scientific methods can be used to understand the behavior and interactions of human beings. This course involves the basic study of psychology as well as an introduction to its core concepts and an evaluation of how we develop as humans.

½ yr. = ½ credit

Introduction to Sociology

What is Society? How have societies developed historically? How do they distribute wealth, income and other resources? How do they organize political authority and economic power? How do they coordinate work? How do they socialize people to "fit in" with those around them? How do they produce popular culture? This course provides answers to these questions in ways that provide an introduction to the field of sociology.

½ yr. = ½ credit

History Through Film EOY next offered in 2023-24

This course will use film to approach significant events in history. Students will be asked to examine the relationships between "reality" and "representation" and re-conceptualize the boundaries between history and film. In addition to written responses, in-class discussion is critical to the success of this course. Students should be prepared to discuss films and articles. **Offered to Grades 10-12**

½ yr. = ½ credit

Technology

The following courses are available based upon enrollment.

Design & Drawing for Production (D.D.P.)

D.D.P. is a foundation course in Technology. This course introduces students to fundamental Technical Drawing topics. These topics are critical to success in a wide variety of careers, as well as to success in advanced Technology Courses. In addition to Technical Drawing, Stress is placed on product design. Students discuss how an idea for a new product ends up on the shelf in a local store. Ergonomics, packaging, materials will also be discussed. Students will also be required to construct working models of projects that they have designed. A great 9th grade course!

This course fulfills the 1 credit of Fine Arts required for graduation. *Suggested Grade Level: 9 – 10*

1 yr. = 1 credit

Computer Integrated Manufacturing (C.I.M.)

In this time of high tech production more and more small and large companies are making use of computers. C.I.M. shows students how the use of computers, Robots, and automated machines are used in today's production. Students will use our 3 axes milling machine, 3 axis robotic arm, Laser Cutter, and other equipment to experience current processes. This is a great class for those pursuing a technical degree or going directly to the world of work. *Suggested Grade Level: 10 – 12*

1 yr. = 1 credit

Principles of Engineering (MST)

This course is intended to develop the student's critical thinking skills and problem solving abilities. It will cover information dealing with what engineers and technicians do and how they perform their jobs. Students will be taught methods of approaching and developing solutions to many design and construction problems that are presented in class. A major part of the course time will be provided for this type of hands-on lab activity. The second 20 weeks will focus on challenging problems dealing with computer machine control (using the computer to control conveyors and machines in designed work cells). The student will learn to design and write programs for the computer to control a manufacturing process. *Suggested Grade Level: 10 - 12*

1 yr. = 1 credit

Material Processing (Metals)

Metal processing gets the student acquainted with many basic processes used in several metal fields. Students will have basic learning and hands-on experiences in Bench Metal processes (cutting, drilling, forming, finishing), basic machining on the metal lathe, and welding (spot and arc welding and brazing using the torch). They will be given assigned projects to develop their skills and will choose a project of their own to show mastery of the processes involved. **It is recommended, but not required that each student have their own light duty work gloves and a 16' or larger tape measure.** *Suggested Grade Level: 9 - 12*

½ yr. = ½ credit

Material Processing (Wood)

Wood Processing introduces students to the hands-on world of wood. In this class, topics to be covered will include basic hand tool use, basic Power tool operation, basic wood joints, wood structure, wood finishes and wood products. **It is recommended, but not required that each student have their own light duty work gloves and a 16' or larger tape measure.** *Suggested Grade Level: 9 - 12*

½ yr. = ½ credit

Computer Graphics

This course focuses on the creation and manipulation of graphics. Software that will be utilized will consist of the Office Suite, PageMaker, Photoshop, Snag-It, and Movie Maker. Students will use these applications to create a variety of interesting projects ranging from simple word documents to complex newspapers & movies. This course would be of use to all students. No prior experience is necessary.

Suggested Grade Level: 10 – 12

½ yr. = ½ credit

Introduction to Robotics

Into to Robotics will investigate robot types and how they are controlled. This course would be useful for any student thinking of a career in manufacturing, engineering or just want to know more about how robots work. Robots controlled by a microprocessor will be programmed to follow lines placed on the floor, sense objects that come close by, and change direction based on contact. Other applications for microprocessors will also be discussed. *Suggested Grade Level: 11-12*

½ yr. = ½ credit

Basic Electricity

This course provides students with a wide variety of instructional topics dealing with basic electrical circuits. Theory and instruction are combined with lab experiments to help students actually observe electrical phenomena. Lab experiments will include learning both residential branch circuits and electronic component designed circuitry. A wide variety of electrical test equipment will be used for measuring and troubleshooting circuitry. *Suggested Grade Level: 9 - 12*

½ yr. = ½ credit

Introduction to Architectural Drawing

This half year class is for those who have an interest in learning the basics of home design and basic home building concepts. We will talk about the history of homes, ways homes are currently built, and the possible ways homes could be built in the future. We will also learn the basics of a very powerful piece of building design software called “Revit”. No previous building experience is necessary. Basic computer skills would be helpful.

½ yr. = ½ credit

Life Hacks 101 – (Taught in conjunction with FACS)

This course, taught by multiple faculty, will focus on providing information, tools and strategies to help students as they make the transition to living on their own. Topics to be covered will include (but are not limited to) fitness and exercise, healthy lifestyles, cooking, basic home repair and using household tools.

½ yr. = ½ credit

Drone Design and Flight

This course will expose students to the world of airplanes and drones. As drones become integrated into everyday life, a greater number of opportunities become available in such careers as real estate, insurance, construction, utilities, agriculture, marketing, journalism and more. Topics will include basic principles of flight, control surfaces of aircraft, airport orientation, and navigating aircraft. In the second half of the course students will learn how to operate drones safely and ethically. Discussions will center on the laws and regulations surrounding drones. Students will also get a chance to fly and solve problems using drones. Come learn about this new and exciting technology and possible careers of the future!

½ yr. = ½ credit

Academic Support Classes

AIS – Academic Intervention Services

- A teacher may refer students for placement
- Neither the school nor parents may exempt students from these classes if test scores indicate that remediation is required.
- Students will be excused from these classes only after successfully passing appropriate State tests or performing consistently at 85% or higher in their academic classes.

Reading & Writing Mastery

The State Education Department requires schools to provide appropriate remedial programs. Students who do not meet an acceptable standard on the English Language Arts Assessment (grade 8) or the English Language Art Regents (Grade 11) will be assigned to a non-credit remedial class to assure that all students develop adequate skills to pass those tests needed for graduation from high school. Students will be excused from these classes only after successfully passing appropriate State tests or evaluation by the AIS Teacher shows the student should be able to pass the ELA Regents. A teacher may also refer students for placement.

Math Mastery

This class is mandated by the state as a result of students’ scores on state exams. The State Education Department requires schools to provide appropriate remedial programs. Neither the school nor parents may exempt students from this class if test scores indicate that remediation is required.

Students who do not meet an acceptable standard on the mathematics assessment (grade 8) or the Integrated Math Regents exam (grade 9 & 10) will be assigned to a non-credit remedial math class. Within the guidelines of the NYS Syllabus for the course, students will develop the concepts, skills and techniques that will enable them to pass the Regents exam needed for high school graduation.

Online Electives

The following courses are offered to provide additional educational opportunities for students. Students should be self-starters and be able to independently, stay on task and maintain a regular schedule of logging on and keeping up with the readings, course assignments, homework and other expectations.

**** Because these are courses that the district pays for ahead of time when a student signs up, STUDENTS WILL NOT BE ALLOWED TO DROP these courses once they start.**

All are ½ year courses unless otherwise noted.

Fine Arts

Art Appreciation
Art History
Art in World Culture
Digital Photography
Music Appreciation

Business

Advertising & Sales Production
Business Communication
Business Law
Business Ownership
Career & College Readiness
Entrepreneurship I & II
Fashion Design
Hosp. & Tourism: Travel
Hospitality & Tourism: Restaurant I & II
Interior Design
International Business
Introduction to Business
Keyboarding and Applications
Leadership Skills Development I & II
Management
Marketing Foundations
Media & Communications
Office Administration I & II
Social Media
Sports & Entertainment Marketing

Computer Science

JavaScript
Programming with Alice
Programming with Scratch
Web Design

Family & Consumer Services

Human Development & Family Studies
Life Skills

Foreign Languages

American Sign Language I & II
French I, II
Latin I, II, III
Spanish I, II, III

Health & Medical

Health
Intro to Anatomy & Physiology
Medical Terminology
Nutrition and Wellness

Physical Education

Physical Education I & II

Science

Forensics: Secrets of the Dead
Forestry & Natural Resources
Paleontology
Renewable Energy
Space Exploration

Social Studies

African American History (1 yr)
Anthropology I & II
Archaeology
Careers in Criminal Justice
Economics
Government
History of the Holocaust
Human Geography
Law & Order
Medieval History
Military Careers
Mythology & Folklore
National Security
Personal Psychology I & II
Philosophy
Principles of Public Service
Psychology
Sociology I & II
World Religion
Women's Studies Through Film
Technology
Concepts of Engineering for Today
Intro to Mfg. Product Design & Innovation
Renewable Technologies

AP Online Courses

These Advanced Placement courses are also available for students to take online. Students should be self-starters and be able to independently, stay on task and maintain a regular schedule of logging on and keeping up with the readings, course assignments, homework and other expectations. These courses are a full year.

Please note that there is a fee for EACH exam.

AP English Language & Comp	AP Macroeconomics	AP US Government & Politics
AP English Literature & Comp	AP Microeconomics	AP World History
AP Human Geography	AP Psychology	

Online College Courses

These courses are offered through Cayuga Community College taught by college professors, taken alongside other college students. Grades and progress are monitored by the college and grades will be reflected on an official college transcript permanently. Each course is 3 college credits and ½ a high school credit.

**** Because these are courses that the district pays for ahead of time when a student signs up, STUDENTS WILL NOT BE ALLOWED TO DROP these courses once they start.**

Cayuga Community College Online Courses - these are **college courses** taught by **college professors**

Fall 2022

PSY 101 - Psychology

COM 130 - Human Communications

BUS 103 - Principles of Business

Intersession 2023

HLTH 104 - Personal Health

Spring 2023

SOC 101 - Sociology

ECON 102 - Personal Finance

BUS 232 - Intro to Social Media and Marketing

PSY 212 - Developmental Psych
(PSY 101 is a prerequisite)

For additional course descriptions, please ask the counseling office for more information

Cayuga-Onondaga BOCES **CTE (career/technical classes)**

Students interested in attending BOCES must be on track with credits needed for graduation (be at grade level) and must have good attendance. These courses are two year programs and start in 11th grade and continue in 12th grade.

Courses here offer students the opportunity to explore specific career and technical interests. These programs can lead to two or four-year college programs or immediate employment upon graduation.

Applied Electrical Technology

Students will be involved in “live” work on off-campus construction and restoration sites. Students will master the fundamentals of residential wiring and as a second year student, will learn electrical codes and their interpretations, the proper installation of metallic and PVC conduit. The relationship between electricity and math is a focus of this program. Approximate student’s course cost: \$100

Auto Body Technology

This program will prepare students for employment in the auto body repair field. It focuses on training in the repair and/or replacement of damaged metal and glass in vehicles. While learning these skills, students will get hands-on experience in straightening bent frames, removing dents, welding torn metal, replacing parts and refinishing. Approximate student’s course cost: \$120

Automotive Technology

This program will provide knowledge and practical experiences that will teach the basic phases of automotive repair, along with related safety procedures. Students will learn to diagnose, troubleshoot, and perform preventive maintenance while repairing automobiles. Students in the Automotive Technology Program have the opportunity to add to their credentials the **ASE Certification** (Automotive Service Excellence Certification), an industry-wide accepted certification. Approximate student’s course cost: \$250

Computer Systems & Network Administration

This program is a two-year program. The first year begins with basic PC repair and troubleshooting. The student will learn the basics of computer technology. The student will learn proper computer help desk and technician skills. In the second year, the student will build upon previous experience and gain a solid foundation in network and systems administration, complete with training in the latest technologies used by businesses today.

Construction Building Trades

In the Construction and Building Trades Program students will learn everything from foundation-forming to interior finish. The program includes masonry, which enhances understanding of form work and structural design. Students get hands-on experience in all phases of the construction industry by planning, developing, and building an actual structure. Students in this program have the opportunity to add to their credentials the **NCCER Certification** (National Center for Construction Education & Research), and industry-wide accepted certification. Approximate student’s course cost: \$100

Cosmetology

Cosmetology is a demanding career that requires a wide range of skills. Students attend this program for two –years, including a 20 day summer school session, to satisfy the hour’s requirement. Students will focus on mastering professional techniques for hair, skin and nails in a salon environment, with hands-on instruction and training, as well as developing interpersonal communication skills. A clinic open to members of the local community provides students with real life experience in their field. The program is designed for students to develop marketable skills. The Cosmetology Program features integrated academics including English/Language Arts and three college credits through an Articulation Agreement with Cayuga Community College, resulting in a SUNY transcript for Small Business Management (BUS 160). In addition, this program prepares students for the NYS Licensing Exam. In order to be eligible to take the exam, students must achieve 1,000 hours of instruction. Approximate student’s course cost: \$300.

Criminal Justice

Criminal Justice is a two year program which prepares students for careers in security, law enforcement, and the legal fields. The curriculum includes extensive preparation in all aspects of law enforcement, including corrections, social services, probation, police investigative work, and pre-law studies. In addition to academics, students will engage in hands-on learning such as fingerprinting, handcuffing, criminal take-down tactical training, self-defense, investigating crime scenes, crowd and traffic control.

Culinary Arts

If you like cooking and food preparation, participating in the culinary arts program is for you! In this program students will learn everything from cooking to catering. In addition, students will gain management skills needed to succeed in the food service industry. This industry is one of the largest employers in the country. There are many opportunities for people with all levels of food preparation skills. The food service program teaches skills in menu planning, cooking, baking and catering techniques, as well as restaurant management. Students learn in a commercial kitchen where they prepare lunches, buffets and banquets during the year. The program provides many opportunities for people with all levels of good preparation skills. Students also use the program as a path to college.

Early Childhood Education

The focus of Early Childhood Education is to prepare students for careers working with children from birth to eight years of age. The emphasis of the first year of the program is prenatal development, birth through middle childhood, child nutrition, and techniques for effective guidance. The second year will focus on developing curriculum and internships in the public schools. Using an educational and community approach, the Early Childhood Education Program (ECE) implements the holistic approach to education, recognizing the importance of a parent's role in the education of their child, as well as the development of children. ECE students establish networks with the Offices of Children and Family Services; The Department of Health and the Department of Mental Health through their experiences and course study.

Emerging Careers in Commerce

Want a career in: Fashion, Music, Gaming, or Entertainment? Our students enjoy a wealth of opportunities to explore their interest in the world of Commerce. Program contents: Marketing, Multimedia & the Web, Career Experiences & Application, Entrepreneurship, E-Commerce, Commerce Communications and Commerce Computer Applications.

Graphic Design and New Media

The Graphic Design & New Media Program offers students broad based instruction and intensive applied learning experiences in the visual communications field. Graduates of this program will be prepared to enter college or begin entry level employment in their chosen field. Students gain experiential knowledge and skills with emerging media technologies that apply to graphic design, illustration, digital photography, marketing, computer animation, web design, and video production. Students are encouraged to pursue continued education and will graduate from our program with a portfolio that demonstrates artistic and technical competency. This portfolio will have a web and video component that displays each student's skills. Approximate student's course cost: \$100

Health Related Occupations

This program will provide a broad foundation of theory and clinical skills enabling students to pursue entry-level employment or continued education. Students learn the theoretical base for skills in the classroom. Students will acquire practical skills in the lab before going to clinical agencies. Permanent Certification for Homemaker Home Health Aide can be obtained after successful completion of the junior year study and the completion of supervised clinical experiences. Certification as a Nurse Assistant requires successful completion of the senior year of study and completion of the State Certification examination. These courses prepare the students to provide basic care to clients in their homes, long-term care facilities, residential facilities and hospitals. Students in their senior year also take a unit in phlebotomy, which provides knowledge and skills necessary to draw blood specimens from veins (performing vein-puncture.) Approximate student's course cost: \$170

Heavy Equipment Repair & Operation

In the Heavy Equipment Repair and Operation Program, students will learn entry-level skills needed in today's construction industry. Instruction and experience are provided in shop management, equipment repair and operation, and **Class A & B** truck driving. Learn to operate and repair loaders, dozers, graders and backhoes. Additional information about transit work, road and foundation layouts and measurements are included. Students who demonstrate good mechanical aptitude and like working outside in all types of weather will be successful in this program. A solid background in reading and math work is strongly recommended.

Machining & Welding

The goal of this program is to help students develop job readiness skills relative to the welding and machining occupations. Good work ethics and employable skills are taught through classroom theory and shop activities. During the first year of our program, students learn the basic theory and skills of both welding and machining through required classroom and shop activities. Measurement, blueprint reading, layout, machine setup and operation of various types of welders and machines are all studied and applied. Required activities and projects act as a curriculum core in order for students to learn the fundamentals of these occupations. Once core requirements are completed, individual projects are encouraged to expand on these skills. Second year students have the opportunity to specialize in either the machining or welding portion of the program. Students will continue to develop their knowledge and ability through advanced trade applications in the occupation of their choice. In welding, students will focus on different types of welding procedures, as well as basic design and fabrication skills using pipe benders, rollers, brakes and shears. In machining, students will expand on their current machine operations and setup skills, along with CNC programming and operation using "Mastercam" software that has CNC lathes and vertical machining centers. Approximate student's course cost: \$50

Outdoor Power Equipment & Power Sports Technology

Are you interested in snowmobiles, motorcycles, ATV's, boats ... all vehicles people use for excitement and fun? If so, you know that someone needs to keep these machines in top running condition. In the Outdoor Power Equipment and Power sports Technology program (OPE), students will learn the skills necessary to work on a variety of equipment ranging from small 2-cycle chain saws to large V-8 marine engines. Students perform live work on customer equipment and learn all engine parts and procedures from tear-down to reassembly.

Plant, Animal, Life Sciences

The Plant, Animal & Life Sciences Program is a stimulating and challenging option for employment bound or college bound high school students. Not sure what you want to do... just know you like working with plants and animals, and being outside... we'll help you figure it out at the Cayuga Onondaga BOCES. All second year students will complete a Career and Technical Endorsement and demonstrate competencies in Plant, Animal and Life Sciences.

Cayuga-Onondaga New Visions Program

This program offers seniors an opportunity to earn high school and college credit while getting real world experience in the field of medical professions. Students must be highly motivated and should be up-to-date with their credits for graduation. This is a competitive program and students must apply.

While enrolled in the New Visions Program, students will spend the morning at their component high school attending chosen classes. Students will then attend their New Vision's Program from 10am to 2pm. Students also have the opportunity to earn a total of (9) nine college credits. This results in a college transcript that the students may apply toward his/her college choice. Students enrolled in these programs may also receive high school credits from their component high schools that will be part of their graduation requirements.

Medical Professions

The New Visions Medical Professions Program is a stimulating and challenging option for college-bound high school seniors who are interested in medicine and related life sciences, and who would like to learn the fundamentals about health care professions. Cayuga-Onondaga BOCES in cooperation with Auburn Memorial Hospital will provide an inside look at medical professions found in hospitals and ancillary health care facilities. Through daily involvement with various medical staff, students will learn what is required of healthcare professionals and the application of their education to real-life situations on the job. Students will gain a better understanding of the responsibilities and professional demands of a busy technical environment and will see how working together as a team can provide quality patient care.

Cayuga Onondaga BOCES Contacts: Principal: Mr. Stephen Woodard (315) 252-0361

 Guidance Counselor: Mrs. Melisa Vormwald (315) 252-0361