2022-2023
CURRICULUM GUIDE

EAST AURORA HIGH SCHOOL
1003 Center Street
East Aurora, New York 14052-3098
716 / 687-2500

STATEMENT OF PHILOSOPHY

East Aurora High School will be a positive physical, emotional, and intellectual environment. The school will offer a variety of experiences (in and out of the classroom) which foster emotional and intellectual growth. It will also encourage varied teaching approaches appropriate to students' needs and teachers' strengths.

Mr. William Roberts, Principal
Mr. Travis Moore, Assistant Principal

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SCHOOL COUNSELORS FOR GRADES 9-12

Ms. Mary Ann Huber
Mrs. Sarah Neudeck
Ms. Erin Wilcox

✸

COUNSELING CENTER

Telephone	**(716) 687-2509**
Fax No.	**(716) 655-3976**
College Board Code	**331-685**

The staff serving grades 9 - 12 includes 55 teachers, a full-time librarian, school nurse, school psychologist, school social worker, and 3 school counselors.

CONTENTS

EAST AURORA HIGH SCHOOL CURRICULUM GUIDE

Educational planning is important for all students. The Curriculum Guide is to be used as a resource in addition to the school counselor's assistance in planning the student's high school years. School counselors clarify goals which will help the students gain basic fundamental knowledge and skills toward future planning. This booklet is a catalog of all the subjects offered, with sample information such as course prerequisites, units, and grade levels.

CLASSES OF 2023 through 2026

Students are required to complete a minimum of 22 credits in order to graduate. Diploma requirements for the classes of 2023, 2024, 2025 and 2026 are the same.

Class of 2023 – 2026 REGENTS DIPLOMA Course / Test Requirements

Course Requirements:		Test Requirements:
English	4 units	English Regents (65)
Social Studies	4 units	American History Regents (65) Global Studies Regents (65)
Math	3 units	Any Math Regents (65)
Science *	3 units	Any Science Regents (65)
Health	.5 units	
Art or Music or Technology	1 unit	
Physical Education	2 units	
Second Language	1 unit	
Electives	3.5 units	
	Total 22 units	

* One unit of science must be a Living Science (Biology).

Class of 2023 – 2026 ADVANCED REGENTS DIPLOMA Course/ Test Requirements

Course Requirements:		Test Requirements:
English	4 units	English Regents (65)
Social Studies	4 units	Global Studies Regents (65) American History Regents (65)
Math	3 units	Integrated Algebra, Geometry and Algebra II / Trigonometry (65)
Science *	3 units	Any 2 Science Regents [1 from Living Environment, 1 from Physical Setting] (65)
Health	.5 units	
Art or Music or Technology	1 unit	
Physical Education	2 units	
Second Language	3 units	
Sequences / Electives	1.5 units	
	Total 22 units	

* One unit of science must be a Living Science (Biology).

What's the difference? To acquire an Advanced Regents diploma, a student must complete 3 units of a language other than English OR one unit of a language other than English plus a 5-unit sequence of art, vocational education (Ormsby), business or technology AND the successful completion of the Geometry and Algebra II/Trig Regents exams and another Regents science exam.

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GRADING

At East Aurora High School, a numerical grading system is used (65% - 100%), taking into consideration preparation, participation, and testing. The transcript indicates this as a final mark. Letter grades for students transferring to East Aurora are given numerical equivalents as follows:

A = 90 - 100%
B = 80 - 89
C = 70 - 79
D = 65 - 69
F = Below 65

SUBJECT LOAD

All full-time students are expected to complete 6.5 credits including physical education.

REPORT CARD - PROGRESS REPORT

All grades are posted numerically and reported every ten weeks. A mark below 65 in a subject area is a failing grade. Any time there is a question, parents are requested to contact the teacher or school counselor by phone to schedule a personal conference. Parents are asked to check the Parent Portal for current grades.

SENIOR EARLY RELEASE

With permission, Seniors may receive permission to have shortened schedules.

ADVANCE PLACEMENT COURSES

The following classes have weighted grades:

AP U.S. History
AP Biology
AP Calculus
AP Chemistry
AP Computer Science Principles
AP Economics
AP English Language and Composition
AP English Literature and Composition
AP European Studies
AP Latin
AP Physics I
AP Research
AP Seminar
AP Spanish
AP Statistics
AP Studio Art
AP U.S. Government & Politics
AP World History
Accounting
Algebra in the Real World
Entrepreneurship
Environmental Science
Future Financial Planning
Latin IV

The average is weighted 1.05 for these courses. This weighted average is used to calculate the cumulative GPA.

Class rank is computed at the end of each semester for Juniors and Seniors.

AP CAPSTONE

The College Board's AP Capstone is an innovative college-level program based on two new courses, *AP Seminar* and *AP Research* that complement and enhance discipline-specific AP courses.

The program provides students with an opportunity to engage in challenging scholarly practice of the core academic skills necessary for successful college completion. The ability to think independently, write effectively, research, collaborate, and learn across disciplines is essential for success in college and beyond.

Students who earn scores of 3 or higher on AP Seminar and AP Research assessments and on four additional AP Exams of their choosing will earn an AP Capstone Diploma. This diploma signifies their outstanding academic achievement and attainment of college-level academic research skills. Students who earn scores of 3 or higher on both AP Seminar and AP Research assessments only (but not on four additional AP Exams) will earn the AP Seminar and Research Certificate.

Film Academy

OVERVIEW

Welcome to the Aurora Film Academy. This innovative program has been developed to provide students a multi-disciplinary approach to movie-making, culminating in a student-produced film festival. This program combines electives and a core course to fulfill the New York State English graduating requirement. The academy has been designed as a team-collective in which each student's participation is integral to the success of the other members. Thus, the program mimics a working environment of a production company, and includes field trips for on-site film shoots.

MISSION

The Aurora Film Academy will prepare students to enter post-secondary program and career fields that expect students to have a broad range of experiences in the areas of creative writing, public speaking, theatre, video production, and presentation. As a college and career program, the AFA should be considered by those interested in such fields as communications, broadcasting, public relations, marketing, advertising, journalism, theater, film-making and a host other related career paths. Also, the AFA will help students build the necessary skill base and portfolio needed to enter the program(s) of their choice. The completion of the three composite courses of the Aurora Film Academy will fulfill the senior English graduation requirement and provide credit in art and another English.

STRUCTURE

The Academy is structured as a sequential art program in which the students take three courses consecutively. The three courses offer the students a co-curricular educational experience that culminates in a community celebration in the form of an exciting film festival. Each project will be strengthened and enhanced by different curricular facets. The program is available to seniors who apply to the program. In addition, field trips offer students the chance to shoot on location as well as compose and produce commercials and/or documentaries for entities outside of school. The ability and willingness to work in teams is a requirement of the academy.

12th Grade	Creative Writing (0049)	(1 Unit)
	Drama (0016)	(1 Unit)
	Video Production (0745)	(1 Unit)

COURSE COMPONENTS

Video Production (0745)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	12	Seniors only

This course component of the Academy will focus on the filming and editing component of the creative process. Students will be taking two other classes in conjunction with this Production course: Creative Writing and Drama. Students will be required to use the screenplay (written in the Creative Writing course) to direct actors (from their Drama Course) during the filming requirement. They will then import the footage into the computers and edit their films. Students will be required to incorporate thoughtful use of titling and text, transitions, effects, narration and commentary (when necessary), and musical accompaniment. Emphasis will be placed on effective "story telling" – the core focus of the Film Academy. Each student will produce their own film – about 5-10 minutes in duration. This course will fulfill the senior project requirement for graduation.

Drama (0016)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	12	Seniors Only

This component of the film academy is designed to provide the student with basic performance skills. The focus is upon the student and his or her development of public speaking skills and stage presence. Time is divided among activities stressing movement, voice projection, role-playing, oral interpretation, scene blocking, directing and script analysis as well as composition of original comedic and dramatic pieces. A variety of large-scale on-stage activities are presented for high school and community audiences.

English 12 - Creative Writing (0049)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	12	Seniors Only

This course component of the film academy will focus on the principles of character, conflict, dialogue, point of view, and plot in a workshop environment. By the end of the course, students will have produced a portfolio of writing as well as a screenplay selected from that portfolio to be produced into a film short in the Video Production course. Students will consider multiple forms of storytelling: traditional narrative, poetry, music lyrics, and documentary. In addition, students study plays, stories, and poetry for analysis. Although the course has a strong focus on creative writing, the activities planned and implemented in the class will continue to meet the expectations of the state's learning standards for English Language Arts.

East Aurora High School

Global Leadership Academy

Globalizing our students means providing an understanding of world events, and most importantly, not judging, but respecting others' rights to live these differences, to view the similarities across our world canvas. The integrated curriculum for this two-year program complements the content of all courses involved. Each course is designed to address the overall goals of the program: studying world cultures, examining current events, discussing historical relevance to today's issues, reading literature that spans the vastness of human experience, utilizing community resources, attending cultural events, and developing communication and leadership skills in order to work in today's shifting global workplace.

Requirements: Students wishing to enroll in the Global Leadership Academy in 9th grade must have achieved an 85% in their 8th grade English and Social Studies courses.

9th Grade	Global Exploration in Literature I (0003)	(1 Unit)
	Global Studies in Culture I (0004)	(1 Unit)
	Leadership Skills for Global Relations (0160)	(1/2 Unit)
	Studio in Global Art I (0011)	(1/2 Unit)

10th Grade	Global Exploration in Literature II (0043)	(1 Unit)
	Global Studies in Culture II: AP World History (0123)	(1 Unit)
	Leadership Development for Global Advancement	(1/2 Unit)
	Studio in Global Art II (0014)	(1/2 Unit)

Global Leadership Academy Year 1

Global Exploration in Literature I (0003)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9	8th Gr GPA 85 or higher In English and Social St.

Year one of Global Explorations in Literature explores the timeline of historical events with the voices of the people experiencing these upheavals, triumphs, and battles. Delve into these voices as we formulate our understanding of how these cultures have integrated, diverged, and reformed to become the literary reminder of the past and guidepost of the future.

Global Studies in Culture I (0004)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9	8th Gr GPA 85 or higher In English and Social St.

This course provides an introduction to history, geography, art, religion and current issues of various "cultural zones" around the world and provides preparation for Advanced Placement World History. Course is limited to students in the first year of Global Leadership Academy.

Leadership Skills for Global Relations (0160)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	9	8th Gr GPA 85 or higher In English and Social St.

This course prepares students to obtain the skills needed to become leaders in professional roles having a global dimension. The class will develop the skills needed to lead efforts for social change on a local and global scale through hands on learning activities. Each quarter, students will examine global issues in one of the following themes: Promote Sustainable Development, Protect Human Rights, Uphold International Law, and Maintain Peace and Security. Students will be presented with real-world scenarios in each of these thematic areas. They will consider the nature of the problem and determine pathways for addressing and perhaps overcoming that challenge.

Studio in Global Art I (0011)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	9	Must be accepted in Global Leadership Academy

This course is designed to complement the other International components by dovetailing projects in conjunction with the other units of study. A variety of projects, mediums, and subjects will be explored in the context of history and cultural views. Students will work in pencil, clay, paint, printmaking, pastels, and even Mother Nature. This two-year course will fulfill the New York State art/music elective requirement for graduation.

Global Leadership Academy Year 2

Global Exploration in Literature II (0043)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10	Successful completion of GLA Year 1

Year two of Global Explorations in Literature continues the exploration of cultural connections and literary voices. We also focus on writing and speaking skills to augment cross-course Academy expectations.

Global Studies in Culture II: AP World History (0123)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10	Successful completion of GLA Year I

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretative issues and types of historical evidence.

Global Studies in Culture is limited to students in the second year of the Global Leadership Academy. Students are required to take the AP World History Exam in May, as well as the Regents Exam in Global History and Geography II in June.

Leadership Development for Global Advancement (0012)

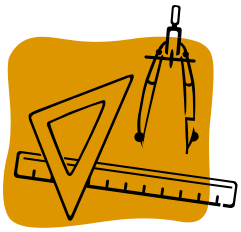
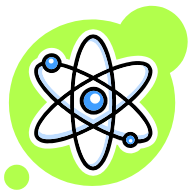
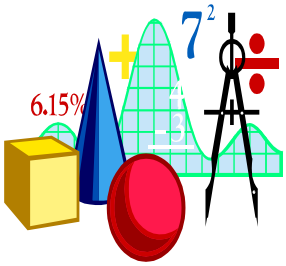
Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10	Successful completion of GLA Year 1

Year two of the program will continue to develop the leadership and problem solving skills introduced in year one of the program. The class is designed to help students understand the specific knowledge and skills necessary to address challenges that may arise in today's complex global business environment. Students' work will continue to foster each of the five pillars of leadership: Vision and Goal Setting, Persuasive Communication, Negotiation and Conflict Resolution, Team Building and Group Dynamics, and Community Service. As in year one, students will be given case studies and real word scenarios designed to foster the practical skills needed for leadership positions in global companies. Most project work is done in team settings that mirror contemporary business practices.

Studio in Global Art II (0004)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10	Successful completion of GLA Year 1

This course is designed to complement the other International components by dovetailing projects in conjunction with the other units of study. A variety of projects, mediums, and subjects will be explored in the context of history and cultural views. Students will work in pencil, clay, paint, printmaking, pastels, and even Mother Nature. This two-year course will fulfill the New York State art/music elective requirement for graduation.

Science, Technology, Engineering, Art & Math

The STEAM is a multi-disciplinary approach to education. The program links mathematics and science with technology. Students in the program must have completed Algebra I and a Regents science course and the exam for each, with a grade of 85% or higher in both the course and exam. The student must have a deep interest in math and science, and be willing to search for connections between these disciplines.

9th Grade	Analytic Geometry (0311)	(1 Unit)
	Chemistry (0433)	(1 Unit)
	Design, Drawing for Production (0711)	(1 Unit)
10th Grade	Algebra 2 (0335)	(1 Unit)
	AP Physics I (0441)	(1 Unit)
	Principles of Engineering (0806)	(1 Unit)
11th Grade	Precalculus (0326)	(1 Unit)
	A.P. Biology (0435)	(1 Unit)
	Computer Programming (0810)	(1 Unit)
12th Grade	A.P. Calculus (0323)	(1 Unit)
	A.P. Chemistry (0427)	(1 Unit)
	Engineering Design / Development (0712)	(1 Unit)

SCIENCE, TECHNOLOGY, ENGINEERING, ART, MATH INITIATIVE

9TH GRADE: STEAM

Analytic Geometry STEAM (0310)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 Weeks	9	85 or higher on Common Core Algebra I Regents Exam and Couse.

Analytic Geometry is designed to further enrich and develop skills in the areas of previously learned algebraic techniques to be applied in Geometric problems, and writing both formal and informal Geometric proofs. This course includes many definitions, postulates and theorems which must be understood and used in proofs. Other topics which will be covered are Transformations, Coordinate Geometry, Locus, Constructions, Three Dimensional figures, Quadrilaterals and Circles. This course requires the use of the TI-84 Plus graphing calculator and will conclude with the Geometry Common Core New York State Regents examination in June.

Chemistry (0415)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	85 or higher on Regents Science Exam and Course.

The Physical Setting/Chemistry course of study is intended to provide the student with an understanding of the theoretical and practical aspects of Chemistry and the ability to handle equipment and chemicals safely. This course is intended for average and above average students with a history of successfully completing Regents Science courses. The topics in Chemistry include: matter and energy, atomic structure, bonding, the periodic table, mathematics of chemistry, kinetics and equilibrium, acids and bases, redox and electrochemistry, nuclear chemistry and organic chemistry. There are six lecture periods per cycle and two lab periods. Students MUST complete all required laboratory experiences in order to sit for the Regents Exam. It is recommended that students taking chemistry have completed Earth Science and Living Environment, and that they have completed, or are concurrently enrolled in Geometry.

Design & Drawing for Production (0711)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	None

DDP is a full year course designed for students interested in exploring technical education and engineering. Students will be introduced to the fundamental principles of engineering and design. Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software. DDP is a prerequisite for POE and Architecture. DDP fulfills NYS requirement for one (1) unit of art or music.

10TH GRADE: STEAM

Algebra 2 (0335)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 Weeks	10	Analytical Geometry

Algebra 2 is designed to give sophomores an enriched curriculum to further develop skills in integrated mathematics, functions and trigonometry. This course includes one extra day of enrichment, which will allow students the opportunity to integrate Algebra 2 and their Physics course. The Algebra 2 course will allow students to connect concepts to physics and other "real world" applications. Topics that will be covered include functions, exponents, logarithms, the unit circle, trigonometry, complex and real numbers, rational expressions, sequences and series, and statistics. This course requires extensive use of the TI-84 Plus graphing calculator and will conclude with the Algebra 2 Common Core New York State Regents examination in June.

AP Physics I (0441)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	STEAM

AP Physics I is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion), work, energy, and power, mechanical waves and sound, and introductory circuits. Students are required to take the AP Physics Exam in May.

Principles of Engineering (POE) (0715)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Design & Drawing for Production

POE is a full year course designed for students interested in exploring technical education. Students will explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, automation and robotics. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

11TH GRADE: STEAM

Precalculus (0321)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	Algebra 2 and a passing grade on the Algebra II Regents exam

Precalculus is the study of advanced algebra, analytical geometry, and an introduction to elementary calculus. Topics will include linear functions, quadratic functions, polynomial functions, the remainder and factor theorems, inverse functions, exponential and logarithmic functions, circular functions, trigonometry, matrices, conic sections, curve sketching, limits, and an introduction to derivatives. This course requires extensive use of the T1-84 Plus graphing calculator and will conclude with a local examination in June.
Algebra 2 Regents exam grade of 80 or better recommended.

AP Biology (0421)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	Mastery level completion (85-100) of Bio. and Chem. or teacher permission

Our AP Biology course conforms to the standards instituted by the College Board for all AP courses and covers all of the topics in the *AP Biology Course Description*. The AP Biology course is designed to be the equivalent of a two-semester college introductory biology course. The college course in biology differs significantly from the usual first high school course in biology with respect to the kind of textbook used, the range and depth of topics covered, the type of laboratory work done by students, and the time and effort required of students. Primary emphasis in an AP Biology course should be on developing an understanding of concepts rather than on memorizing terms and technical details. Essential to this conceptual understanding are a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns. Students are required to take the AP Biology Exam in May, as well as the Regents Exam in Living Environment in June.

Computer Programming (0810)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Algebra I

The Introduction to Computer Science in Python 3 course teaches the fundamentals of computer programming as well as some advanced features of the Python language. Students will develop an appreciation for how computers store and manipulate information by building simple console-based games. This is a challenging course equivalent to a semester-long introductory Python course at the college level. Students will also explore the world of robotics and Arduino. Students enrolled in Computer Programming may **challenge** the AP Computer Science Exam.

12TH GRADE: STEAM

AP Calculus (0323)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	12	Precalculus

AP Calculus includes the study of limits, differential calculus and integral calculus of algebraic and transcendental functions. Students enrolled in this course are required to take the Advanced Placement exam in Calculus AB in May.

AP Chemistry (0427)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	Mastery level completion of Chem. and Alg. II. Must take or have taken Physics

This course follows the recommended course outline published by the College Board. AP Chemistry is a college-level course taken at the high school setting. The college-level approach differs significantly from the first course in chemistry in the textbook used, range and depth of topic covered, and the kinds of laboratory work done by students as well as the time and effort required for a successful experience at the AP level. Lectures and investigations will involve a higher level of mathematical application. Emphasis will be placed on development and use of critical thinking skills. Students are required to take College Board's Advanced Placement Exam in Chemistry. For students wishing to pursue a degree in any physical science or engineering, for example, having taken this course will put them at a great advantage going into college.

Engineering Design and Development (EDD) (0712)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	12	STEAM

Students will apply the knowledge and skills acquired throughout the STEAM program as they identify an issue and then research, design, test a solution, and ultimately present their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

ART

Art: Express yourself! Everyone needs a creative outlet every day. The Art Department is proud to offer one of the most well-rounded and comprehensive course selections in Western New York. Every student should find at least one class that will appeal to their interests and abilities. Students should never feel intimidated about taking an art class because they "can't" draw. "Talent", as with other school subjects, is a skill that is developed through practice and effort. We encourage all students to take some art courses, even if they do not plan to major in the visual arts after high school. You will learn to appreciate and understand art, as well as look at the world differently. Employers cite the most desirable trait of new employees is creative problem solving skills. Our courses challenge the creative side of the brain. Students planning to pursue a career in the arts will develop a portfolio ready for college application and presentation. Take a moment and go over the following descriptions and consider art courses to take. We look forward to you creating in the art room.

Note:
The descriptions below and on the next few pages describe all courses being offered next year. Several classes are paired and offered every-other year as is stated below.

Offered School Year (22/23)

- AP Studio in Art
- Jewelry Design
- Jewelry Design 2
- Sculpture

Offered Next School Year (23/24)

- Digital Arts
- Animation/Cartooning
- Industrial Design

Studio in Art (0702)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	None

Get Art! This course is the foundation upon which all art courses are built. A variety of projects, mediums, and subjects will be explored. In this class, students get to "try on" a different medium every couple of weeks. Students will work in pencil, clay, paint, printmaking, pastels, and even mother nature. Plus, Studio in Art sets the stage for additional art classes and provides students with an opportunity to determine what type of medium they prefer. Finally, Studio in Art fulfills the NYS Requirement for one (1) unit of art or music.

Studio in Global Art I (0011) & Studio in Global Art II (0011)
(Component of Global Leadership Academy)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-10	None – Must be enrolled in the Global Leadership Academy Program

Creation with a connection! This course is designed to complement the other Global Leadership Academy components by dovetailing projects with the other units of study. A variety of projects, mediums, and subjects will be explored in the context of history and cultural views. Students will work in both two and three dimensional media including pencil, clay, paint, linoleum, paper Mache, digital media, pastels and even mother nature. This two-year course will fulfill the New York State art/music requirement for graduation.

Animation/Cartooning (0733) **[NOT OFFERED 2022-2023]**

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

Animate your Characters! Most young adults have always wondered how the cartoons and animations they grew up watching were created and have always wanted to make their own. Animation / Cartooning class offers students the opportunity to explore conceptualization, writing, storyboarding, and final production of their vision using hand-rendered techniques and computer animation software. Students will work on projects such as character development, cartooning, GIF animation, and character animation.

AP Studio Art (0738)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	Studio in Art and teacher recommendation

Write your own art class curriculum! This course is essentially an independent study where students can explore what interests them the most. AP Studio Art is the capstone class for students following an individual art pathway for a Regents Diploma or seeking the art pathway endorsement on an Advanced Regents Diploma. Students will develop a portfolio of work in an area of focus (drawing, two dimensional art, or three dimensional art). Artwork for the portfolio will be produced in and outside of the classroom environment. The artworks students produce will fulfill the quality, concentration, and breadth components of the AP Portfolio Assessment. Peer critiques and written artist statements are integral to the program. Students will learn to prepare, photograph and mount their work for submission for the final AP Portfolio Assessment. Additional enrichment activities include extensive aesthetic discussions, group exhibition(s), and individual art show organization and curation.

Design & Digital Arts (0709) **[NOT OFFERED 2022-2023]**

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Studio in Art or DDP

Make amazing art on the computer! We have a powerful computer lab with the "sweet" Adobe Creative Suite of software. This course will familiarize students with a variety of industry standard digital programs including Photoshop, Illustrator, InDesign, and Premiere. Students will make a variety of projects beginning with digital imaging (photography), then expanding into vector based computer rendering (illustration), combining it together with layout software (design), and showcasing the skills in the medium of video (film editing).

Drawing I (0728)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	Studio in Art

Everyone can draw (better)! This course develops basic drawing skills using a variety of drawing materials and techniques. Projects are presented in an intentional step-by-step approach meant for all levels of students from beginners to advanced. Activities are designed to enhance students' observational, rendering, and self-expressive skills. Various artists and art movements are studied to better understand approaches to subject matter and techniques. Media may include, but is not limited to pencil, conte crayon, charcoal, and pen and ink.

Drawing II (0739)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	Studio & Drawing

Advanced Drawing is a self-directed extension of the foundation (Drawing) course. Students will further their skills and portfolio in a direction they choose under the guidance of the instructor.

Industrial Design (0748) **[NOT OFFERED 2022-2023]**

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	Studio in Art with Teacher recommendation or Drawing and Design for Production

Form follows function! From shoes to phones, cars to appliances, industrial designers change and enhance the way we use and interact with everyday products by designing them to be both functional and beautiful. Industrial Design is the development of concepts and specifications that maximize the function, value, and appearance of products. In this class, students will learn to develop and communicate designs through drawing, computer aided design (CAD) and model making. During the design process students will conceptualize and produce models that they can then interact with as a user and then refine the design to optimize the product's ability to interact with the end user.

Jewelry Design (0725)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

Bling Bling! This course will allow students to express their creativity through the medium of Jewelry. Students will learn the basics of jewelry design and the skills of jewelry making: (cutting, piercing, forming, filing, soldering, surface embellishment, finishing, wax modeling, and stone setting). Students will use a variety of traditional and non-traditional materials. Optional minor student expense for casting fee if they choose (approximately $30.00).

Jewelry Design II (0749)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	Jewelry Design I

Bling, Bling and more Bling! This course will allow students to build on their experiences in Jewelry Design by adding the skills of chasing and repousse, enameling, and stone setting. An optional student expense for casting fees if they choose (Approximately $30.00)

Painting I (0735)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	Studio in Art

Get your Bob Ross on! This course develops techniques and skills using a variety of painting materials. Activities are designed to enhance students' self-expression skills, as well as their observation skills. Various artists and art movements are studied to better understand approaches to subject matter and techniques. Media may include, but is not limited to acrylic, watercolor, and ink.

Painting II (0727)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	Studio in Art & Painting

Push the paint! Advanced Painting is offered as an opportunity for students to further develop the painting techniques and skills learned in Painting class. This is a great course for building a well versed portfolio for college, or for simply furthering their interest in painting. Students will learn advanced techniques and concepts using acrylics, oils, and watercolors. Enjoy the opportunity to explore expressive imagery, landscapes, portraits, still life, etc.

Photography - DIGITAL (0708)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

Click Click! This is a very popular class for students to consider as they will learn a skill that will last a lifetime – how to properly use a digital camera and take beautiful photographs. This course is designed to guide students in developing the basic technical skills and creative ideas involved in digital photography. Students will learn the functions of a standard digital camera. They will learn the basic functions of the professional imaging software Adobe Photoshop for touch up and creative manipulation. It is helpful, but not mandatory, to have your own digital camera for this class. No prior photography or computer experience is necessary to enroll in this class.

Sculpture (0704)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	Studio in Art

FORMing art! This course will allow the students to develop skills and techniques using a variety of three dimensional art making materials. This class is an asset to anyone interested in designing or building three-dimensional design: carving, modeling, and constructed sculpture. A number of interesting projects are completed which may include: wire, paper Mache, paper, wood, clay, metal and plaster.

Roycroft Arts (0731) **[NOT OFFERED 2022-2023]**

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

In this course students will create work in the traditional mediums of the Arts & Crafts period which may include (but are not limited to): stained glass, block printing, illumination, and ceramics, copper work, woodworking and book-making. Exploration of European and Eastern influences, local connections and the traditional media of the movement will provide insight into the philosophy of the Arts & Crafts Movement.

YEARBOOK Journalism & School Publication (9996)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	None

Leave your mark and share a legacy! Students in this class will work as a team to produce the Auroran, the school's yearbook. Among areas covered are: basic photography, interviewing, reporting, feature writing, news stories, layout design, advertising, journalistic ethics, and professional standards. This course includes extensive reading of models of excellent journalistic techniques and evaluate and analyzes journalistic writing through decisions and critiques. Staff members write and edit copy, layout pages, take and process photographs, check page proofs, sell advertising and manage business aspects of yearbook production. (This course may be repeated for additional elective credit in the role of senior staff or editor positions.)

Ceramics I (0701)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Studio in Art

Throw some clay! This course will help the student to develop skills and techniques within the medium of clay. Students will learn the traditional methods of clay construction including slab, pinch, coil, drape molding, and wheel throwing. Creative glazes and other surface treatments will be used by students to enhance their work.

Ceramics II (0734)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	Ceramics

Throw some clay! This course will take the student further within the medium of clay. Students will learn advanced techniques in construction and glazing and then focus their mastery of the medium in self-directed study, with the guidance of the instructor. Students will also be exposed to business, logistics, and marketing issues of running a ceramic studio.

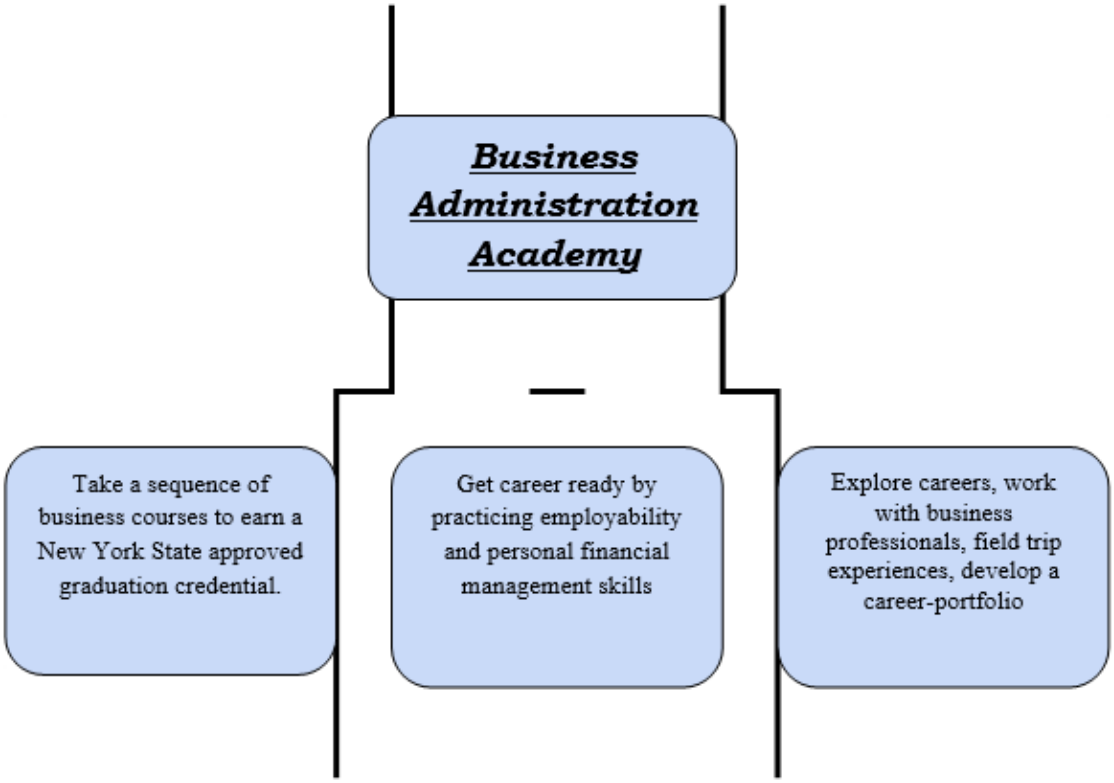
Video Production – Film Academy (0745)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	12	Seniors Only

Write, Direct, Shoot, Edit! This course component of the Academy will focus on the filming and editing component of the creative process. Students will be taking two other classes in conjunction with this Production course: Creative Writing and Drama. Students will be required to use the screenplay (written in the Creative Writing course) to direct actors (from their Drama Course) during the filming requirement. They will then import the footage into the computers and edit their films. Students will be required to incorporate thoughtful use of titling and text, transitions, effects, narration and commentary (when necessary) and musical accompaniment. Emphasis will be placed on effective “story telling” – the core focus of the Film Academy. Each student will produce their own film – about 5-10 minutes in duration. This course will fulfill the senior project requirement for graduation.

Business & Career Exploration

In addition to taking business courses to fulfill elective requirements, you have the opportunity to join the Business Administration Academy.



Business Administration Academy Requirements:

- Complete the required business-career curriculum courses as stated in the sequence.
- Complete ONE (three credit hour) SUNY level course within the business curriculum.
- Become an active DECA Club member.
- Participate in an internship as a capstone and complete an evaluated career-based portfolio.
- Pass the NOCTI and Wise Financial Literacy exams proving career-based knowledge.

Business Administration Academy

Course Sequence

Regents Diploma:

Unit Sequence	HS Credit Units Earned
Career & Finance Management	1
Project Management	.5
Future Financial Planning*	.5
Accounting*	1
Career Exploration Internship Program (CEIP)	.5
Required Units	**3.5**

Advanced Regents Diploma:

Complete the courses in the Regents sequence, plus the following…

Unit Sequence	HS Credit Units Earned
Marketing in the 21st Century	1
Entrepreneurship	.5
Total Required Units of Credit	**5.0**

*Optional college credits are available through SUNY ERIE Advanced Studies program
(transferrable to majority of colleges)

Accounting (0515) (SUNY COLLEGE CREDIT AVAILABLE)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	None

Accounting is the foundation of all college business programs and is necessary knowledge to manage a successful business. This course of study meets the requirements of a first year college accounting curriculum. The main focus of this course is on the accounting cycle with emphasis on keeping journals, posting accounts, and completing financial statements to run a successful business.

Accounting II ( )

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	Accounting

Interested in an accounting or financial-based career? This class is for students who already have taken Accounting and have mastered the accounting cycle. This course will advance your knowledge by utilizing the foundations of accounting to manage a business by setting up payroll and employee records. This level of accounting focuses on the corporate side of business.

Career and Finance (0524)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	None

Want to feel ready for your future? This course focuses on YOU! Your finances, career interest & what to do after high school. Students will develop employability and life skills throughout this one-year course. Topics include Career Exploration, College Exploration, Employability Skills, Interviewing, Presentation Etiquette, Personal Financial Management, Banking and Insurance. This is an excellent entry level business course for all students, but required for the Business Administration Academy & vocational students.

Career Exploration Internship Program (0513)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11-12	Career and Finance (preferred)

Before graduating high school, demonstrate your employability skills and build your résumé by completing an internship experience. This is an opportunity that allows you to work with a mentor to gain experience in a career field. Some internship placement opportunities include experience in the financial industry, marketing, health care field, engineering, business merchandising, journalism and education just to name a few!

- *Working Papers Required *54 hours of internship experience (unpaid)*
- *Personal transportation must be available and provided to and from your placement.*
- *Capstone Course for Business Administration Academy students.*

Entrepreneurship (SUNY COLLEGE CREDIT AVAILABLE) (NOT OFFERED IN 2022-23)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

Learn about business ownership and gain entrepreneurial leadership skills! This course will allow you to tap into your innovative and competitive spirit to learn what it takes to run a business. Work in teams to practice management, communication skills, and creative thinking. This course will include guest speakers, local business exposure and out of the classroom experiences.

Future Financial Planning (SUNY COLLEGE CREDIT AVAILABLE)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11-12	None

Have you ever wondered about taxes, budgeting, college loans, investments and credit use? Want to set yourself up for positive financial success? Join this class to get ready for your future by adopting methods and strategies that will promote your future success in college and living on your own. Learn how to manage a financial budget, calculate personal taxes, explore the world of loans and credit use, practice making investments through the stock market and learn tips about college aid and loan repayment.

Marketing in the 21st Century (0521)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	None

Business is the number one college major today. Marketing is essential and generally required for ALL business majors. Learn about marketing concepts used to make a sports team thrive, hospitality and tourism and how a business continues their success and earns a profit. Students will implement key marketing functions to create marketing promotions to execute effective advertising strategies. Marketing topics covered involve the understanding of how products are marketed to consumers, the sports and entertainment industry, business logos and slogans, branding, sales and an overview of how marketing impacts business decisions. This course will include guest speakers, team-oriented projects, local business exposure in and out of the classroom experiences.

Project Management

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

Project management is a core career skill that exists across career fields, there is a projected increase of over 2 million careers that will require these skill sets by 2027. Project management consists of communicating with others & developing project materials that are necessary to help others understand information. This course will focus on providing you a foundation of project management skill sets that will propel you into your future. You will learn and practice advanced tools and skills within each of the Google Apps, focus on design elements of projects and improve your confidence with your communication and delivery. This course will help you gain confidence by practicing effective communication, speaking to a group, sharing ideas, and creating effective presentation resources that all tie in with the steps that are needed to launch and successfully complete a project.

English

In accordance with New York State requirements, all students are required to earn four credits in English, and pass the ELA Regents examination.

Courses in 9th, 10th and 11th grade address the NYS Common Core Standards for ELA in order to develop the necessary skills for successfully completing the NYS Regents Examination in English. Students take this exam for the first time in June of their junior year.

All 12th grade English courses continue to address the NYS Common Core Standards with the goal of preparing students to be college and career ready by the end of the senior year.

The Honors Courses in 9th and 10th grade continue to be guided by the NYS Common Core Standards while also emphasizing activities that prepare them for the rigors of AP Seminar (grades 10, 11 or 12), AP Language and Composition (grades 10, 11 or 12), AP Literature and Composition (grades 10, 11 or 12), and AP Research (grades 11 or 12, following completion of AP Seminar). These courses expect students to have the skills and knowledge presented in earlier courses well in place. Students will also be expected to be highly motivated and have excellent work and study habits. Students enrolled in these classes will work to develop high level questioning and reasoning skills and will be required to complete long-term independent work, including reading and writing during the summer. Admission requirements are discussed in the Department Policies below.

Departmental Policies

- Students wishing to enter English 9 Honors and English 10 Honors must have achieved an 85% in their previous English class.
- Summer work may be required of all students in the Global Leadership Academy, Honors 9 Honors, English 10 Honors, and all the AP Courses.
- AP exams are required on all AP courses.
- Elective and AP courses may require students to obtain outside materials.
- Plagiarism: To plagiarize means to use another person's ideas, writing, or work without attribution, and to pass any of this material off as one's own. Penalties imposed are failure of the assignment (0-64%) and parent contact; other consequences may be imposed when appropriate.

English Course Pathways – Choose one from each grade level

Grade	**9**	**10**	**11**	**12**
Courses	English 9 or English 9 Honors Global Exploration In Literature I (GLA only)	Eng. 10 or Eng. 10 H or AP Language or AP Literature or AP Seminar Global Exploration in Lit II (GLA only	Eng. 11 ELA or AP Language or AP Literature AP Seminar AP Research	English 12 ELA or Eng. 12 Mythology or Eng. 12 Creative Writing (Film Academy only) AP Language or AP Literature or AP Seminar or AP Research

English 9 (0009)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9	Gr. 8 English

English 9 provides students the opportunity to write both creative works and interpretive pieces while enjoying diverse works of literature, from poetry to short stories to novels and plays. Students practice using language for debate, discussion and argument. Students will be encouraged to adopt strategies which lead to writing that is grammatically correct, logically sound, articulate, and convincing. Individual and collaborative work invites real-world communication practice in both projects and English Language Arts assignments. English 9 is an excellent class for those who wish to prepare for college as well as common exams. Flexibility and traditional aspects of English are experienced in the English 9 classroom.

Exam: Local

Honors English 9 (0007)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9	85% or higher in previous English class

Honors English 9 prepares students for being successful readers and writers in Advancement Placement courses, as well as serving as the foundational course for ensuring students are strong writers, readers, and thinkers beyond high school. Students will examine the writer's craft in a number of genres: poetry, short fiction, the novel, drama, and non-fiction. Students will also complete a number of both teacher and student designed research studies that culminate in a research paper. Finally, students enrolled in this course should expect to engage in independent reading inside and outside the classroom.

Exam: Local

English 10 (0010)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10	English 9

English 10 continues the goals of English 9 through an increasingly intensive and persuasive writing style and expression and reading curriculum. Students will continue to practice revision strategies covered in class that cause students to be aware of not just questions of grammar, but also of style and expression of idea. Diverse genres are studied with a healthy balance between fiction and nonfiction. Poetry and other forms of literature from various timeframes provide an excellent backdrop to study our ever-evolving language as well as history. In English 10, students will also study the art of persuasion in the context of public speaking and performance. English 10 remains a good choice for college-bound as well as career-oriented students.

Exam: Local

Honors English 10 (0013)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10	85% or higher in previous English class.

Honors English 10 builds on the foundational skills developed in Freshmen English courses. As with Honors English 9, this class prepares students for being successful readers and writers in Advancement Placement courses, as well as serving as the foundational course for ensuring students are strong writers, readers, and thinkers beyond high school. Students will examine the writer's craft in a number of genres: poetry, short fiction, the novel, drama, and non-fiction. Students will also complete a number of both teacher and student designed research studies that culminate in a research paper. Finally, students enrolled in this course should expect to engage in independent reading inside and outside the classroom.

Exam: Local

English 11 (0021)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11	English 10

English 11 refines the scope and sophistication of students' performance in the English language arts and focuses on argument and analysis with the written word. Debate, discussion, and individual efforts such as the analysis of complex information sources, interpretation of a performance of full-length works, and cross-cultural exploration and communication, prepare classes for the Regents exam, but in a broader sense, for college and career readiness. English 11 expands enrichment opportunities by promoting independent learning. Students may compose and perform original poetry, fiction, or drama often after experience novels, plays and poetry from across America and other cultures. All students will take the Common Core Regents Examination for English Language Arts in their junior year. English 11 aims to make college-bound students and those entering specific career fields articulate communicators with the written and oral word.

AP Seminar (0071)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	n/a

This foundational course provides students with opportunities to think critically and creatively, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. Students explore real-world issues through a variety of lenses and consider multiple points of view to develop deep understanding of complex issues as they make connections between these issues and their own lives.

Students will read articles, research studies, and foundational and philosophical texts; listen to speeches, broadcasts, and personal accounts; and experience artistic and literary works to gain a rich understanding of a broad range of issues.

Students are assessed with two course-long performance tasks and an end-of-course exam. The AP Seminar score is based on all three assessments.

Students working to attain an AP Capstone Diploma must complete this course in 10th or 11th grade.

AP Research (0072)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	AP Seminar

This course allows students to design, plan, and conduct a yearlong, research-based investigation on a topic of individual interest. Through this inquiry and investigation, students demonstrate the ability to apply scholarly understanding to real-world problems and issues.

Students further the skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information to build, present, and defend an argument. Students are assessed through culminating performance tasks: 1) Academic thesis paper (approximately 5000 words) with a defined structure, and 2) Presentation, performance, or exhibition and oral defense of research and presentation. The AP Research score is based on these components.

Students working to attain an AP Capstone Diploma must complete this course in 11th or 12th grade.

AP English Language and Composition (0055)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12 (11-12 Preference)	None

AP English Language and Composition provides students with practice and encouragement in becoming skilled readers of prose in diverse contexts, including essays, novels, poetry, articles, and cartoons. In addition, this class helps students to write for a variety of audiences and purposes related to college and post-secondary experiences. Students will study classical rhetoric, current events in media, as well as prepare for the AP Language and Composition exam. Ultimately, students will be prepared to use critical analysis, interpretation and communication skills.

AP Literature and Composition (0062)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	None

We will spend the year reading and discussing novels, short stories, and poetry. Our objective as readers will be to become sensitive to a writer's style and the choices she or he makes to create the characters and settings we grow to love. The readings for the class are ones typically found in an introductory literature class in college. Students enrolled in the class will take the AP Literature Examination in May.

English 12 Everyday English (0045)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	12	English 11

This class focuses on the use of English in different forms of communication for everyday life. The course is ideal for students wishing to build their reading and writing skills that are practical for the workplace and the skills necessary to incorporate reading and writing into our daily lives. Students can expect to study workplace writing, argument skills, current events, and works of fiction and nonfiction.

English 12 Language Arts (0046)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	12	English 11

English Language Arts prepares students for the kind of reading and writing they will encounter in a post-secondary education setting. Students will study grammatical concepts, readings across a variety of genres and time periods, and various modes of writing. Analysis and evaluation of literature will be practiced throughout the year. Core assessments include a mid-term exam, a portfolio of writing and a senior project.

Journalism & School Publications (0968) **(NOT OFFERED IN 2022-2023)**

Units of Credit	Duration	Grade Level	Prerequisite
.5	40 weeks	10-12	None

Want to have your fingers on the pulse of EAHS news, sports and entertainment? Want to view the school community from… within? Want to make real change in the school with your words? Join the exciting world of EAHS reporting!

Pursue journalism through audio documentaries, podcasts and other digital media publications and platforms. Among the areas covered are: interviewing, reporting, feature writing, news stories, layout design, advertising, journalistic ethics and professional standards.

Report to your fellow students on the latest championship game or heart-breaking play-off loss. Trash the worst movie of the year or sell out the theater with critical and entertaining show reviews.

This course includes extensive reading of models of excellent journalistic techniques and evaluates and analyzes journalistic writing through discussions and critiques. Staff members write and edit copy, record sound and video, design pages as well as audio and video programs and documentaries, take and process photographs, check page proofs, and may sell advertising.

English 12 – Mythology and Philosophy (0051)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	12	None

What do Percy Jackson, Thor, Mulan and Hercules have in common? They all reside in our imaginations as some of the greatest mythological heroes.

Explore the ways in which mythology and philosophy reveal life's darkest and most brilliant secrets. When we use the word "myth" in this course we will be referring to the great stories and adventures that have shaped human imagination over the centuries. Mythical stories are an essential aspect of human experience; as such, they are interwoven in the substance of lore. Intertwined with this is philosophy, the study of who we are and why we believe what we believe and act the way we act. Argue and research contemporary issues related to politics and morality, as well as use logic to make conclusions in the ethical realm.

Final Assessment: Term Paper

No Fear Public Speaking ( )

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

This course introduces students to speech communication which emphasizes the practical skill of public speaking, including techniques to lessen speaker anxiety and the use of visual aids to enhance presentations. Students engage in diverse presenting endeavors such as process and expository speeches as well as debates. Civility and ethical speech-making are the foundations of this course. Its goal is to prepare students for success in typical public speaking situations and to provide them with the basic principles of organization and research needed for effective public speaking.

A World of Oddities: Weird, Wild, Wicked (0054) [NOT OFFERED IN 2022-2023]

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	12	None

This elective is devoted to exposing and investigating bizarre people, places and events that make up our past, present, and possibly future. Topics from across the globe enter classroom discussions, debates, presentations and study. From current television content like our fascination with zombies to real-life zombies in Haiti, WWW tackles some of the most intriguing subjects. Contemporary counter-cultures and past sideshow circuses are brought into the classroom. Is the Loch Ness monster real? Yeti? Sasquatch? Why were witches drowned to see if they were innocent? These questions are just some of the possible explorations in WWW. Film, media, interviews, collaborative endeavors and good old-fashioned conversation reveal the strangeness in our world. Students can also pursue their own interests. Why is Halloween so popular? How come the Twilight Zone still entrances us? Each topic illuminates the weird world in which we live because sometimes truth is stranger than fiction.

* WWW practices common core English Language Arts skills in grades 9-12.

Sports and Society (0027)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

Sports and Society centers around America's and the world's relationship with sports, both from the past and present. Students critically discuss, debate and learn about the role major and minor sports play in the fabric of different cultures, from the National Football League in America to club rugby teams in New Zealand. In addition, the controversies of sports, from allowing African Americans to play in the major leagues to Title IX and the explosion of women in athletics. Stories, films, poetry and media portray sports differently, but all are born from unique cultures around the globe and philosophies about athletics. Why is soccer the most popular team sport on earth? Should sports be offered in high school? Students explore the sometimes heart-breaking love affair people all over the world have with sports in their societies.

*Sports and Society practices common core English language Arts skills in grades 9-12.

Broadcasting (0035)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	20 weeks	10-12	None

Broadcasting is a ½ year or semester course (depending on scheduling needs) that students may take more than once due to changing topics and increasing skill level (for a project based learning class). Students will learn about the history and practice of broadcast journalism including skills like:

- Acquiring information to interpret and translate for an audience
- Interview techniques
- Public speaking
- Video equipment operation
- Public relations
- Production techniques for television and digital media

Students work both individually and cooperatively to complete live and recorded projects concerning school news and events as well as interviews with school and community members. Practical skills such as organization and time management coupled with necessary soft skills like creating rapport with diverse people to meet deadlines with high quality news and entertainment for the student body and staff audience. Students are evaluated based on daily oral and/or written assignments, quality of interviews, news segments, and stories. Broadcasting is very much a hands-on, project-based course requiring much participation in the form of discussion and story generation. In addition, Broadcasting aims to foster a positive media experience for the school community through anchoring our morning news show on BDTV. It is important that students have availability for different school events such as nighttime sporting events (both indoor and outdoor), concerts, dramas, club activities, and community events.

Introduction to Acting: Performing Scenes from Renaissance Drama (0028)
(Not offered in 2022-2023)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12 Course can be repeated	None

In this course, you will have the opportunity to perform monologues and selected scenes from plays written and performed during the Renaissance period – and not just Shakespeare! There were other dramatists then too, such as Ben Johnson and Christopher Marlowe. This is a performance based class in which you will create dramatic character through a study of speeches and scenes selected from Renaissance drama.

The class introduces the student to the acting and directing process in the context of Renaissance theatre. It will help you to acquire and develop effective techniques and strategies to successfully direct and/or perform versed drama plays, classical or contemporary. In the fall and spring, you will prepare a monologue and/or a short scene for a public performance.

Recognize that this is an acting class and you will be called upon to perform frequently. All scene work performed on-stage MUST be memorized unless otherwise noted. Daily work may include writing, observation, discussion, critique, occasional quizzes, being silly, having fun, relaxation exercises, moving around, reading plays, and laughing.

Health

Health (0620)

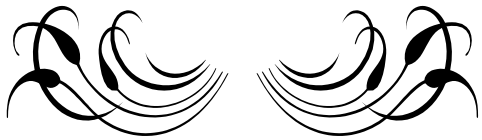
Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

Health is a required course for graduation. This course covers a variety of topics dealing with personal health and wellness. Students are encouraged to assess their personal health and make appropriate behavior changes to enhance wellness.

Health in Society (0619)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	12	None

This course will be an extension from the current NYS mandated health curriculum, focusing on preparation for life beyond graduation. There will be expansion on mental health, with focus on the importance of maintenance through the different stresses of senior year and beyond. Relationships, decisions and new freedoms, specifically within dorm rooms and apartments will be addressed. College transition will be a focal point including topics such as choosing college/major, nutrition in dorms/apartments, conflict management/communication, homesickness, coping, lifelong fitness, and social media/developing your brand. We will use alumni and local college/university representatives to discuss transitions and common successes and obstacles.



World Languages

Many colleges now require languages other than English and in a world that is becoming smaller because of increased air travel and faster communications, and a global economy, students will find the study of foreign languages to be essential.

Spanish I (0231)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	None

Level I of the Spanish language provides the student with a basic vocabulary, and introduces the simpler grammatical structures of the language.

Spanish II (0232)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	Spanish I

Level II of the Spanish language gives an overall picture of the structure of the Spanish language, gives practice with more complicated reading passages, and builds skill in communicating.

Spanish III (0233)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Spanish II

Level III of the Spanish language continues to build vocabulary, oral competence, and understanding of structure and idioms.

Spanish IV (0234)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	Spanish III

Level IV of the Spanish language continues the study in the areas of speaking, listening comprehension, reading and writing. Spanish four also focuses highly on the cultural understanding of the Spanish speaking world through projects, videos and authentic resources.

AP Spanish (0235)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	12	Spanish III & IV w/ 85 average in both

The main goal of the AP Spanish Language and Culture course is to develop a student's communication skills in Spanish. AP Spanish Language is equivalent to an intermediate level college course in Spanish. Students cultivate their understanding of Spanish language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges. Students will practice and follow a variety of materials that will expand their knowledge of formal Spanish in written and oral context. It is expected that all students take the exam in May.

Spanish Around the World (0237)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	None

This project-based class walks students through Spanish-speaking countries around the world. Students will learn culture through interactive music, art, and visual artifacts. Students will learn the geography and history of these Spanish countries through creation. Students will learn basic Spanish cultural vocabulary. This class will be taught in English with limited use of Spanish. No prerequisites are necessary.

Introduction to Basic German: Conversational and Reading Skills for Study Abroad and Travel (0238)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11-12	At least 1 year of another language

German I: Designed to give students interested in global leadership, STEM, music, tourism, hospitality, international business or travel in German speaking countries the required level of conversational and reading for everyday use in German speaking university towns. This course approaches the study of German through four skills: listening, speaking, reading, and writing. Content includes dialogues, supplementary vocabulary, pronunciation and grammar exercises, and culture of German speaking countries. Performance based assessments in speaking and writing will provide the students the opportunity to use the language in practiced, familiar contexts. Interpretive listening and reading tasks are focused on the acquisition and recognition of basic stated information in the target language.

German Language: Conversational & Reading Skills for Study Abroad and Travel (0239)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11-12	At least one year of another language

German II: Students enrolled have demonstrated proficiency in German and wish to further develop their competence in German across the listening, speaking, reading, and writing domains. Performance-based assessments in the speaking and writing domains provide students the opportunity to use the language in practiced, familiar contexts as well as occasional unfamiliar topics with increasing independence.

Latin I (0245)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	None

Latin I will introduce students to the basic vocabulary and grammar of the language. Emphasis will be placed on the reading of Latin. Topics specific to Latin I will include: the origins of Rome, the Roman Republic, the Punic Wars, Egyptian history, the Olympian gods, creation myths, Ancient Roman clothing, Roman food, slavery in the ancient world, Roman entertainment (gladiators, chariot races, and theatre), life in Pompeii, life in Roman Britain, the roots of English words, and the use of Latin in medicine and anatomy.

Latin II (0246)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	Latin I

Latin II will expand on those skills and topics learned in Latin I. Cultural topics specific to Latin II include: the use of Latin in medicine and anatomy, Roman religion and superstitions, mythical heroes and heroines, the hero's journey, the Roman military, the history of the Roman Revolution (figures like the Gracchi, Marius, Sulla, Pompey, Crassus, Julius Caesar, Mark Antony, Cleopatra, and Octavian), as well as Roman engineering. .

Latin III (0248)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 Weeks	10-12	Latin II

Latin III will expand on those skills and topics learned in Latin I and II. In Latin III, students move from reading adapted Latin to the actual works of Catullus, Martial, Ovid, Vergil, and others. Cultural topics specific to Latin III also include: Augustus and the Roman emperors, marriage customs, and introductions to rhetoric and metrics. An entire unit will be devoted to the use of Latin in law, legal terminology, constitutional law, and mock trial. All students will be expected to take a comprehensive Regents credit-bearing exam in June. This course has also been designated by SUNY Albany as ACLL102; students can apply to receive 4 college credit hours on a SUNY transcript.

Latin IV (0247)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 Weeks	11-12	Latin III

Latin IV will expand on those skills and topics learned in Latin 1, II, and III. In Latin IV, students will read a survey of unadapted college level Latin literature, including selections from Horace, Catullus, Ovid, Vergil, Petronius, Caesar, and Cicero. Topics specific to Latin IV include rhetorical analysis, metrics and scansion, the impact of Latin literature on art, later literature, and film, the court of Nero, and the history of the later Roman Empire. This course has also been designated by SUNY Albany as ACLL 201; students can apply to receive 3 college credit hours on a SUNY transcript.

AP Latin (0251)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 Weeks	12	Latin IV

Students will intensively translate Vergil's *Aeneid and Caesar's Commentaries on the Gallic Wars* in accordance with the AP College Board syllabus. History, grammar, vocabulary, culture, mythology, rhetorical analysis, metrics, and literary interpretation will all be keyed to these works specifically. Students will also focus on Latin sight reading. Students will be expected to take the AP exam in May.

Classical Roots (0229)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	9-12	None

This course is open to all students. In this semester course, students will study the derivation of English words from Latin and Greek. This course also beneficial for preparing for SAT's and PSAT's. This course will expand, enrich and enhance the student's English vocabulary. We will also cover special units on the use of Latin and Greek in anatomy and medicine, science, law, literature, and history.

Mathematics

In accordance with New York State requirements, all students will be required to take three years of Mathematics and pass one Math Regents Exam.

Students who wish to receive an Advanced Designation Regents Diploma will take three years of Mathematics and must also pass the Algebra I, Geometry and Algebra 2 Common Core Regents examinations.

Math Course Pathways

Grade	8	9	10	11	12
Courses	Algebra 1 →	Geometry →	Algebra 2 →	Pre-Calculus →	AP Calculus or AP Statistics
Courses		Algebra 1 →	Geometry →	Algebra 2 →	Pre-Calculus or Algebra in the Real World
Courses		Algebra 1 →	Geometry →	Intermediate Algebra 2 →	Algebra 2 or Algebra in the Real World
Courses		Intro to Algebra →	Algebra 1 →	Geometry or Applied Geometry →	Intermediate Algebra 2

****AP Statistics** may be taken concurrently with Pre-Calculus or AP Calculus.

****Algebra in the Real World** is aligned with Erie Community College (ECC) MT116, so students have the option of taking this class for ECC credit.

Introduction to Algebra (0315)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-10	Math 8 Recommendation of MS Math teacher

This course will develop foundational skills needed for algebra and problem-solving strategies for real world problems. It is designed for students who need additional math preparation before taking Algebra 1 (CC). Topics in this course include rational numbers, variable expressions, linear equations and inequalities, quadratic equations and factoring, functions, graphing linear and quadratic functions and statistics. A local final exam will be given in June.

Algebra 1 (CC) (0327)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-10	Math 8 or Intro to Algebra

Algebra 1 (CC) is the first Regents mathematics course in the high school. Algebra 1 provides tools and problem solving skills necessary for a wide variety of disciplines. Topics in this course include the real number system, algebraic properties, operations with variable expressions, functions, linear and quadratic equations, inequalities, systems of equations, ratio and proportion, solving word problems algebraically, transformations of graphs, exponential equations, radicals and statistics. This course requires the use of the TI-84 Plus graphing calculator and will conclude with the Algebra 1 Common Core New York State Regents examination in June.

Algebra 1 (CC) Lab (2213)

	Duration	Grade Level	Prerequisite
0	40 weeks	9-10	In conjunction with Algebra 1

Algebra 1 Lab is a class taught in conjunction with Algebra 1 (CC). It will provide extra support and practice in foundational skills for students in Algebra 1 who need additional help in Math. The Lab meets 3 days per cycle.

Recommended for all students who scored a 1 or 2 on the Math 8 Assessment or recommendation by Middle School Math Teacher.

Applied Geometry (0316)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-11	Algebra 1 (CC)

This course is a foundational study in Euclidean geometry and Coordinate geometry. It is designed for students who have experienced some difficulty with mathematics. A major emphasis of this course is to allow students to investigate geometric relationships through algebraic applications, geometry software, hands-on activities and investigations in real world geometric applications. A local final exam will be given in June.

Geometry (CC) (0314)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-11	Passing score in Algebra 1 CC and Algebra 1 CC Regents exam

Geometry (CC) is the second Regents mathematics course at the high school. Geometry allows a variety of ways for students to acquire and demonstrate mathematical reasoning ability when solving problems. Students will identify and justify geometric relationships, formally and informally. This course will provide an integrated study of geometry with algebraic applications and will include geometry of the circle, transformations, similar figures, trigonometry, polygons, constructions, and solid geometry based on the common core standards. This course requires the use of the TI-84 Plus graphing calculator and will conclude with the Geometry Common Core New York State Regents examination in June.

Algebra 1 Regents exam grade of 80 or better recommended.

Intermediate Algebra 2 (0317)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Geometry or Applied Geometry

This course is designed for students who have experienced some difficulty with mathematics yet wish to further explore topics in algebra, trigonometry, and graphing. Topics include additional study in algebraic manipulations, algebraic simplification, functions, quadratic functions, exponential functions, transformations of graphs, trigonometry and statistics. A local final exam will be given in June.

Algebra 2 (CC) (0328)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Passing score on Algebra 1 (CC) and Geometry (CC) exams & courses or Intermediate Algebra 2

Algebra 2 (CC) is designed to further develop skills in integrated mathematics and their "real-world" applications. Topics that will be covered include functions, exponents, logarithms, the unit circle, trigonometry, complex and real numbers, rational expressions, sequences and series, and statistics. This course requires extensive use of the TI-84 Plus graphing calculator and will conclude with the Algebra 2 Common Core New York State Regents examination in June.

Algebra 1 and Geometry Regents exam grades of 80 or better recommended.

Precalculus (0321)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	Passing score on Algebra 2 (CC) exam and course

Precalculus is the study of advanced algebra, analytical geometry, and an introduction to elementary calculus. Topics will include linear functions, quadratic functions, polynomial functions, the remainder and factor theorems, inverse functions, exponential and logarithmic functions, circular functions, trigonometry, matrices, conic sections, curve sketching, limits, and an introduction to derivatives. This course requires extensive use of the TI-84 Plus graphing calculator and will conclude with a local examination in June.

Algebra 2 Regents exam grade of 80 or better recommended.

Algebra in the Real Word (0339)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 Weeks	11-12	Intermediate Algebra 2 or Algebra 2 (CC)

Algebra in the Real World is designed for students who wish to further their study of mathematics and its applications. The topics include modeling with functions with an emphasis on linear, exponential, logarithmic, and quadratic. This course is aligned with Erie Community College (ECC) MT 116, so students have the option of taking this class for ECC credit.

AP Statistics (0333)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 Weeks	11-12	85 or higher in Algebra 2 (CC) or teacher recommendation

AP Statistics introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. The concepts of the course are exploring data, planning a study, anticipating patterns, and understanding statistical inference. The syllabus will follow that of the Advanced Placement Statistics program. This course requires extensive use of the TI-84+ graphing calculator. The course may be taken concurrently with Precalculus or AP Calculus. Students enrolled in this course are required to take the Advanced Placement exam in Statistics in May.

AP Calculus AB (0323)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	12	Precalculus

AP Calculus includes the study of limits, differential calculus and integral calculus of algebraic and transcendental functions. The syllabus will follow that of the Advanced Placement Calculus program. This course requires extensive use of the TI-84+ graphing calculator. The course may be taken concurrently with AP Statistics. Students enrolled in this course are required to take the Advanced Placement exam in Calculus AB in May.

Music

Concert Band (0761)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	**7th and 8th grade band**, by audition, or teacher recommendation

The concert band provides continued instruction on all wind, brass and percussion instruments in ensemble and lesson group settings. This course involves daily rehearsals with the entire ensemble, as well as weekly small group lessons. Concert band gives students the opportunity to learn band repertoire, with an emphasis on developing technique and musicianship. Students will have an opportunity to participate in local and state solo festivals. Each student is expected to practice their instrument at home regularly. All school concerts are a required part of this coursework.

Concert Band fulfills the NYS Requirement for one (1) unit of art or music.

Chorus (0751)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	Audition or teacher recommendation

The chorus is that branch of the Music Department dealing with the study and performance of vocal music.

Chorus fulfills the NYS Requirement for one (1) unit of art or music.

Orchestra (0771)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	**7th and 8th grade orchestra**, by audition, or teacher recommendation

The orchestra provides continued instruction on violin, viola, cello and string bass in ensemble and lesson group settings. This course involves daily rehearsals with the entire ensemble, as well as weekly small group lessons. Orchestra provides an opportunity to learn string and full orchestra repertoire, with an emphasis on developing technique and musicianship. Students will have an opportunity to participate in local and state solo festivals. Each student is expected to practice their instrument at home regularly. All school concerts are a required part of this coursework.

Orchestra fulfills the NYS Requirement for one (1) unit of art or music.

Beginning Guitar (0752)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	9-12	None

This course covers the very basics of guitar performance. Students will learn how to tune a guitar, play chords, read and play very simple sheet music, and basic guitar maintenance. This course if geared towards beginners, but students are required to bring their own guitar to class.

Jazz Ensemble (0217)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	**1 year in HS Concert Band**, 3+ years experience on major instrument, teacher recommendation or by audition

Students who display technical mastery of the saxophone, trumpet, trombone, piano, electric and/or upright bass, electric guitar, or drum set can be selected for this group. Big band instrumentation is strictly followed and must be limited to ensure the balance/blend of the ensemble. Each member receives a weekly lesson with their section. Jazz ensemble performs at all high school concerts, local competitions, and various community events. This course provides an opportunity to perform jazz, blues, swing, Latin, rock and improvisation. This course cannot be used to complete the Music/Art requirement.

Music Performance (0755)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	Permission of teachers

This course is designed for the student who wishes to participate in more than one ensemble. Schedule and grades will be determined by all teachers involved.

Music Performance fulfills the NYS Requirement for one (1) unit of art or music.

Music Theory I (0753)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None required but a very basic music background is advisable

The course will cover the elements of music, including staffs, clefs, key and time signatures, rhythm & pitch notation, and sound elements. Students are strongly recommended to have a music background, as this is an advanced music course.

Music Theory II (0754)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	Music Theory I

Theory II continues and expands the knowledge learned in Theory I.

Physical Education

All NYS students are required to complete and receive passing grades in Physical Education in order to graduate. At East Aurora High School we offer a variety of options in Physical Education. The Physical Education classes are co-educational. Students who are medically excused, either long-term or short-term, will be required to perform an alternate activity for a grade.

Physical Education classes meet every other day.

Standard Physical Education (0604)

Units of Credit	Duration	Grade Level	Prerequisite
.5	40 weeks	9-12	None

This all inclusive Physical Education class explores a variety of activities including Fitness, Team Sports, Lifetime Activities, and Aquatics. The focus of this class will be to explore a variety of activities and build the skills necessary to participate in those activities.

Competitive Physical Education (0607)

Units of Credit	Duration	Grade Level	Prerequisite
.5	40 weeks	10-12	None

A Physical Education course designed for those students who wish to participate in more Team/Traditional activities at a more competitive level with a focus on game play and performance. Strategies and higher levels of play will be an emphasis for each activity. Students will be involved in traditional sports/activities and their role as a more active participant. Proposed activities: Badminton, Basketball, Flag Football, Floor Hockey, Lacrosse, Softball, Volleyball, among others.

Individual Personal Performance Physical Education (0605)

Units of Credit	Duration	Grade Level	Prerequisite
.5	40 weeks	9-12	None

A Physical Education course designed to equip students with the necessary skills to lead an active lifestyle, maintain physical fitness and explore personal health. Activities to include Yoga, Archery, Dance, Badminton, Fitness Walking, Fitness Education skills, Aquatics, Cooperative Games, and outdoor education.

Students in grades 11 and 12 have the option to supplement a regularly scheduled Physical Education class with participation in multiple school athletic teams or pre-approved alternative activities. To be eligible for this opportunity, there are specific guidelines an deadlines that need to be followed. Please visit the school district webpage under PE Alternatives for more detailed information regarding this Physical Education alternative opportunity.

Fitness Based Physical Education ( )

Units of Credit	Duration	Grade Level	Prerequisite
.5	40 weeks	10-12	None

This course is designed to give students the opportunity to learn fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of strength training, aerobic conditioning, and overall fitness training and conditioning. The students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness and movement activity for a lifetime.

Science

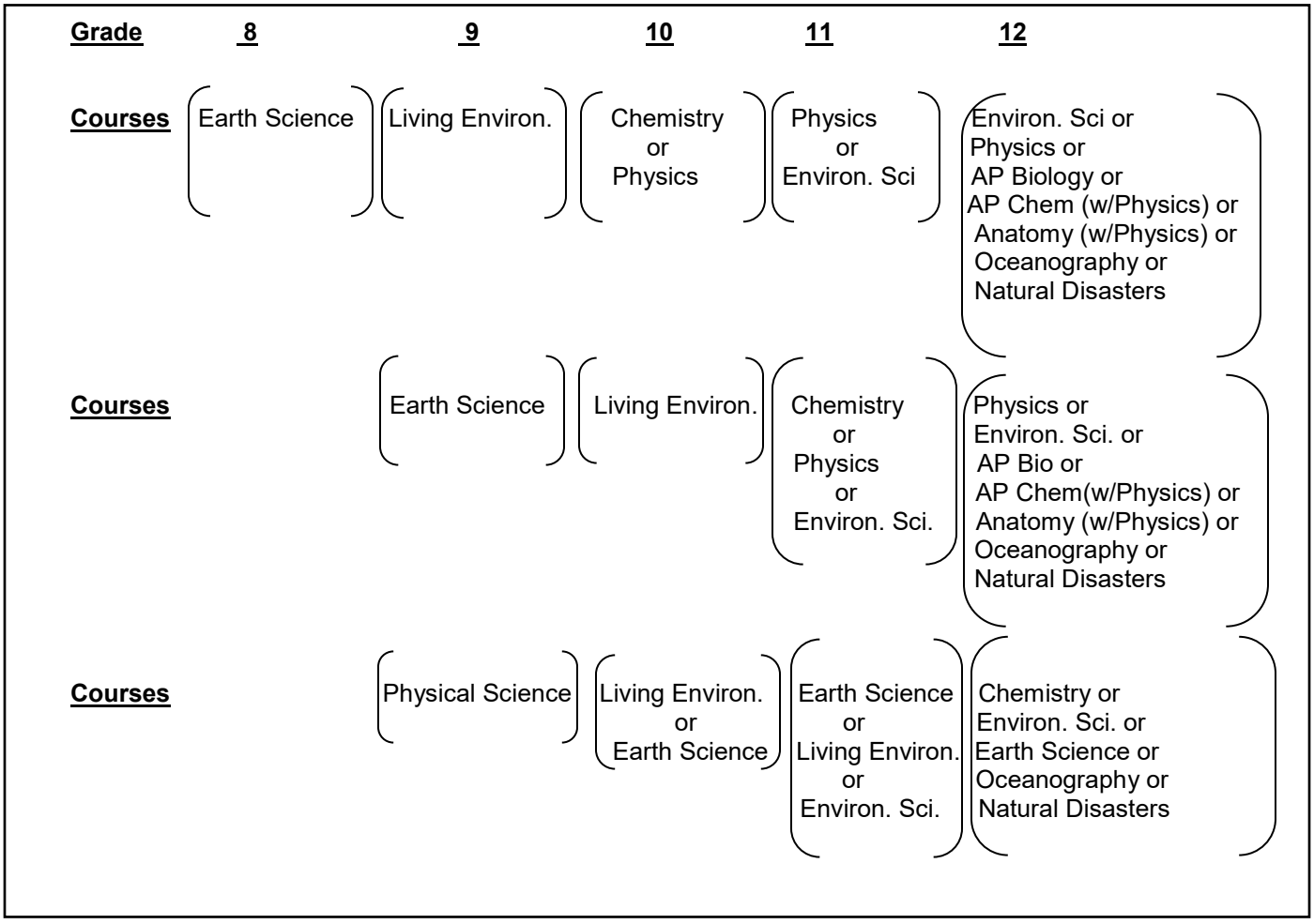
In accordance with New York State requirements, all students will be required to earn three credits in Science, including Living Environment (formerly Biology), and pass at least one Science Regents Exam.

Students who wish to receive an Advanced Designation Regents Diploma will earn three credits of Science (as indicated above) and must also pass two Science Regents exams, one Living Environment and one from Physical Setting.

Science is the study of the physical and biological aspect of the universe. Three or four years of science are essential for students pursuing higher education.

Laboratory reports are an integral part of science courses and serve as the admission ticket to the final exam. As department policy, the completed lab reports will be held on file for six (6) months following successful completion of the exam. Laboratory represents 25% of the course grade.

Science Course Pathways – Choose one from each grade level



Physical Science (0409)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9	Completion of Science and Math 8 and recommendation of Science teacher.

Physical Science introduces students to topics about astronomy, weather and physical and chemical structure of matter and energy. Students will be asked to use science processing skills to analyze, interpret, and explain the phenomenon they see in short answer and lab report form. The class involves more hands-on interaction in a small group setting. Topics include; measurement, variables, lab report structures, the solar system, plate tectonics, earthquakes, topographic maps, mineralogy, erosion, seasons, weather, energy, molecules, matter and solutions. The course's final exam is local covering the topics and process skills of the class. Completion of the class will lead to either Living Environment R or Earth and Space Science R the following year.

Exam: Local Exam – Physical Science

Earth and Space Science R (0407)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9 - 12	Successful completion of Science and Math 8

Earth and Space Science introduces students in depth to topics about astronomy, weather systems, and physical/historical Geology. Students will be asked to use science processing skills to analyze, interpret, and explain Earth and astronomy elements. Topics include; the Universe and solar system, dinosaur and W.N.Y paleontology, plate tectonics, earthquakes, land forms, topographic maps, physical geography, mineralogy, erosion, the seasons, weather, climate, energy and wave dynamics, rivers and beach systems, etc. This course includes a mandatory lab component which meets an additional 2 days in a 6-day cycle. The course's final exam is the NYS Earth Science Regents exam and laboratory performance test.

Exam: Physical Setting – Earth Science Regents

Living Environment (0410)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	Science 8

Living Environment is the study of life from the following perspectives: evolution, ecology, biochemistry, reproduction, genetics, ecology and human physiology. Living Environment has a NYS required lab component of which all students must complete satisfactorily.

Exam: Living Environment Regents

Physical Setting/Chemistry (0415)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Successful completion of Living Environment and current enrollment in Geometry.

The Physical Setting/Chemistry course of study is intended to provide the student with an understanding of the theoretical and practical aspects of Chemistry and the ability to handle equipment and chemicals safely. This course is intended for students with a history of successfully completing Regents Science courses. The topics in Chemistry include: matter and energy, atomic structure, bonding, the periodic table, mathematics of chemistry, kinetics and equilibrium, acids and bases, redox and electrochemistry, nuclear chemistry and organic chemistry. There are six lecture periods per cycle and two lab periods. Students MUST complete all required laboratory experiences in order to sit for the Regents Exam. It is recommended that students taking chemistry have completed Earth Science and Living Environment, and that they have completed, or are concurrently enrolled in Geometry.

Exam: Physical Setting/Chemistry Regents

AP Chemistry (0427)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	Mastery level completion of Chem. and Alg. II. Must take or have taken Physics

This course follows the recommended course outline published by the College Board. AP Chemistry is a college-level course taken at the high school setting. The college-level approach differs significantly from the first course in chemistry in the textbook used, range and depth of topic covered, and the kinds of laboratory work done by students as well as the time and effort required for a successful experience at the AP level. Lectures and investigations will involve a higher level of mathematical application and so students should have completed, or should be concurrently enrolled in pre-calculus. Emphasis will be placed on development and use of critical thinking skills. Students are required to take College Board's Advanced Placement Exam in Chemistry. For students wishing to pursue a degree in any physical science or engineering, for example, having taken this course will put them at a great advantage going into college**.** It is expected that students taking this class have completed all 4 Regents Science classes, or that they are concurrently enrolled in Physics.

Environmental Science (0411)

Optional: 4 credit hours of SUNY natural science core credit available through Erie Community College

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	Successful completion of Living Environment (Biology) and Earth and Space Science or Physical Science

Environmental Science is the study of how humans impact the environment. Topics include forestry, ecology, biodiversity, wildlife management, air pollution, climate, climate change, alternative energy, waste management, water resources, and human population. Special focus

on local Western New York issues like Love Canal, Great Lakes Ecology, Cazenovia Creek, and Alternative Energy. Through hands on laboratory activities students will have the opportunity to better understand the earth around them and how they interact with that earth. Course involves outdoor field work here on the HS grounds, and field trips to waste water treatment plants, Letchworth State Park, and various locations on Buffalo River. Class involves focus on laboratory skills, projects with presentations to the class, research, and current environmental topics. Course culminates with a local exam. If student chooses SUNY credit, this course meets the requirements for PH120 Environmental Science (3 credit hours) and PH121 Environmental Science Lab (1 credit hour) through Erie Community College. College cost is approximately $300.

Exam: Local

Anatomy & Physiology (0417)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	Mastery level completion (85 or higher) in Bio. & Chem. or teacher permission. Completion of Physics or concurrent enrollment is recommended.

Human Anatomy and Physiology is a 100 Level college class where students are introduced to the structure and function of all of the systems of the human body. This course requires students to have completed Biology and Chemistry with mastery scores, and IT IS HIGHLY RECOMMENDED THAT STUDENTS HAVE TAKEN PHYSICS OR ARE CONCURRENTLY ENROLLED IN PHYSICS when taking this class. In this class we will study the following topics: introduction to the human body, biochemistry, cells and tissues, and the 11 body/organ systems. This class is structured to prepare students for possible college majors and careers in the health science field. Students must complete 5 mandatory dissections, the rat, pig heart, sheep brain, cow eye and sheep kidney and must be able to participate in all lab activities. Students interested in obtaining college credit have the option to do so through the Excelsior College testing company, cost of the exam and related details are discussed during the first day of class.

Exam: Local

Physical Setting/Physics (0423)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Successful completion of Algebra 1 and Geometry

Physics is the study of matter, energy and its motion and behavior throughout the universe. The course provides students with a conceptual framework and factual knowledge of the physical world through the study of topics that include: laws of motion, conservation of energy and momentum, force, electricity and magnetism, characteristics and behavior of waves, and modern physics. Students conduct laboratory investigations and apply course concepts to make informed predictions and explanations about the physical world using critical thinking and scientific and mathematical problem solving skills.

Exam: Physical Setting/Physics Regents

AP Physics I (0441)

Units of Credit	Duration	Grade Level	Prerequisite
2.0	40 weeks	10-12	STEAM

AP Physics I is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound. The course emphasizes a conceptual understanding of the physical world while providing opportunities to enhance scientific and mathematical problem solving skills. Students are required to take the AP Exam in Physics in May.

AP Biology (0421)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	Mastery level completion (85 or higher) in Bio. and Chem. or teacher permission Completion of Physics or concurrent enrollment is recommended

Our AP Biology course conforms to the standards instituted by the College Board for all AP courses and covers all of the topics in the *AP Biology Course Description*. The AP Biology course is designed to be the equivalent of a two-semester college introductory biology course. The college course in biology differs significantly from the usual first high school course in biology with respect to the kind of textbook used, the range and depth of topics covered, the type of laboratory work done by students, and the time and effort required of students. Primary emphasis in an AP Biology course should be on developing an understanding of concepts rather than on memorizing terms and technical details. Essential to this conceptual understanding are a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns. Students are required to take the AP Exam in Biology in May.

Natural Disasters (0406)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11 & 12	Successfully completed 3 years HS Science

In this course students will explore various categories of natural disasters. They will learn the scientific concepts underlying the cause and general effects of each disaster, as well as locations in the United States and around the world where each type of disaster is most likely to strike. Students will learn preparation and survival techniques, as well as predictive methods used and the associated effects of climate change with regards to weather related disasters. In this class students will do activities to demonstrate both the scientific concepts and methods of measuring and tracking the process.

This class will require students to be engaged through various teaching methods. Students will be expected to complete projects, develop presentations, participate in lectures, labs and all associated class activities. This course will conclude with an exam during mid-term or finals week.

Oceanography (0442)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11 & 12	Successfully completed 3 years HS science

This course is designed to present an integrated overview of the principles and concepts of the geology, chemistry, physics and biology of the world's oceans. The course begins with a description of ocean basins and the mechanisms of their evolution. The physical and chemical properties of seawater are considered next and the role of oceans in elemental cycles, particularly the carbon cycle, examined. The discussion of physical oceanography includes large scale patterns, ocean circulation, as well as small-scale phenomena such as waves. The geology of the coastal ocean beaches, and estuaries will also be covered, as well as the ocean's communities and biotic and physical factors structuring them. Topics of current interest (global warming, coastal development, fisheries and introduced species, whaling, coral damage and the effects of pollution) will also be discussed throughout the course. This course will be presented to students via multiple modes and teaching styles. Students will be expected to complete presentations and projects, participate in labs, lectures and demonstrations. This course will conclude with an exam during mid-term or finals week.

Social Studies

The social studies curriculum is no longer "history" or "geography" or "civics." Important generalizations and concepts from all the social sciences are emphasized throughout the four-year sequence of courses, in accordance with NYS Graduation Requirements. Students must also pass the two Social Studies Regents Exams.

Social Studies Course Pathways – Choose one from each grade level

Grade	9	10	11	12
Courses	Global I	Global II or AP Euro	US History or AP US History	Gov't/ Econ or AP Gov't/AP Econ

Global History & Geography I (0109)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9	Grade 8 Social Studies

Students will investigate the cultures and major historical events of western and non-western peoples from prehistory through the Age of Absolutism.

Exam: Local

Global History & Geography II (0110)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10	Global Studies I

Students will investigate the cultures and major historical events of western and non-western peoples from the Age of Enlightenment through modern times.

Exam: Global History and Geography II Regents

American History & Government (0120)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11	Global Studies II

Students investigate and understand the major historical events and people who contributed to our cultural heritage.

Exam: United States History and Government Regents

AP American History & Government (0121)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11	Mastery level (85-100) completion of Global Studies II or permission of the teacher

Students will follow the chronological American History curriculum and will use a college level textbook. Students enrolled in this course are required to take the A.P. exam in May, as well as the Regents Exam in United States History and Government.

AP European History (0157)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Mastery level (85-100) completion of Global Studies I or US History or teacher permission

The focus of this course is on the major events and trends from approximately 1450 to the present and some of the principal themes in modern European history. Students enrolled in this course are required to take the A.P. exam in May. If students take this course in place of Global II, they will also take the Regents Exam in Global History and Geography II.

Economics (0162)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	12	American History & Government

This course provides students with the economic knowledge and skills that will enable them to function as informed and economically literate citizens in our society and world. The focus is on both micro and macroeconomics.

Exam: Local Exam

AP Economics (0111)

Units of Credit	Duration	Grade Level	Prerequisite
.5	40 weeks	12	85 average in American History or teacher recommendation.

This course provides students with an introduction to macroeconomics. Students will study such topics as fiscal and monetary policy, factor markets, international trade, and the measurement of economic performance. Students enrolled in this course are required to take the A.P. exam in May.

Participation in Government (0159)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	12	American History & Government

This course is an overview of our government and political process in theory and practice. The course provides knowledge of public policy issues and develops communication skills to be an informed and effective citizen in American Society. Community service hours are required to successfully complete this course.

Exam: Local Exam

AP U.S. Government & Politics (0216)

Units of Credit	Duration	Grade Level	Prerequisite
.5	40 weeks	12	Mastery level (85-100) completion of US History or permission of the teacher

U. S. Government and Politics provides an analytical perspective on government and politics in the United States and involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. Students enrolled in this course are required to take the A.P. exam in May.

Introduction to Sociology (0165)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11-12	Global II

Sociology is the study of society, social institutions, and social relationships. This course provides an introductory overview of this field of study.

Introduction to Psychology (0151)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11-12	Global II

Psychology is the scientific study of behavior and mental process. This course is for students wishing to gain a better understanding of why people act as they do, learning about their thoughts and feelings on looking for new ways to interpret the world and the people who inhabit it. Students will be given opportunities to explore topics of individual interest, create presentations, participate in psychological demonstrations and experiments, and lead class discussions.

Military History - Modern [1776- Present] (0125)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11-12	Global Studies II

This course explores warfare from the Civil War to present, with emphasis on technology, and strategies. By focusing on these selected wars, this course will illustrate the causes and results

of wars, while examining the weapons of each period. The military leadership, strategies, tactics, equipment, human and natural resources will be analyzed in determining the outcome of the military operation. Videos, films, readings, and class trips will aid in discussion.

American History Through Film (0114)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11 & 12	Global II and/or American History

The purpose of this class will be to trace American history through film. Students will discuss the historical events concerning major historical themes. Students will view a variety of movies from early American history to the modern era. Students will be introduced to how views of history change over time (historiography) and how people interpret historical events differently. Students will comparatively analyze films from different time periods and different perspectives. Students will examine films from a historical and personal vantage point. Finally, students will assess the historical validity of these films.

Holocaust & Genocide Studies (0107)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11 & 12	Global Studies II

This course will examine the development of human rights and instances of genocide throughout history. A major purpose of the case study approach will be to explore the causes and outcomes of genocide in the past, present and future. The course will also examine the people, ideas, and events that furthered the expansion of human rights and how students themselves can take part in raising awareness to prevent genocide in the future. Case studies include but are not limited to the Armenian genocide, the Holocaust, Soviet Union programs under Stalin and Lenin, Rwanda, Darfur and modern North Korea.

Street Law (0108)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11 & 12	Global II

Street Law is a one-semester elective course and is intended to provide students with an opportunity to study the legal, judicial, law enforcement, and corrections systems of the United States. The class will focus on constitutional law, general legal principles, and the laws and procedures derived from them. We will study constitutional law, civil and criminal laws, court procedures, and civil rights in addition to connecting law to our everyday lives.

History of East Aurora (0063)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	11 & 12	Global II

The History of East Aurora will explore the creation of the Village of East Aurora starting with its founding in 1804 and examining central elements of the village including the Millard Fillmore House, Elbert Hubbard, the Roycroft Campus and its long history of horse racing. The class will also place East Aurora and its historical developments into a larger setting relating the village back to the city of Buffalo, covering topics such as the Pan American Exposition, Larkinville, and the sinking of the Lusitania. The class will include guest speakers and field trips to East Aurora including the Millard Fillmore House and the Elbert Hubbard House.

TECHNOLOGY

Provided below are the courses offered in the High School Technology Department. The courses provide students with the opportunity to learn about a variety of topics that involve technological, vocational, math, and scientific concepts and skills. Our curriculum is designed to suit all levels of student ability in a project-based format with courses broken up into one semester and full year outlines.

Design & Drawing for Production (0711)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	9-12	None

DDP is a full year course designed for students interested in exploring technical education and exploring the designed world. If you're considering a technical career whether it be engineering, industrial design, or construction work, DDP is an excellent choice. Students will dig deep into the design process, applying math, science, and engineering standards to hands-on projects. You will be exposed to the world of 3D printing, laser cutting and engraving, and large format printing. DDP students will work both individually and collaboratively to design solutions to a variety of problems. Students will become proficient with Autodesk Inventor solid modeling CAD software and Adobe illustrator graphic arts software. DDP is a prerequisite for Principles of Engineering, Computer-Aided Design I, and Architecture. DDP fulfills the NYS graduation requirement for one (1) unit of art or music.

Architectural Design and Applications (0713)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Design & Drawing for Production

This is a course that teaches students about the history of architecture, construction terminology, building techniques, and how to produce a set of working drawings including a typical wall section, foundation plan, site plan, elevations, floor plans, and a perspective drawing. Students are provided with a large scaled model home to construct and reinforce the concepts learned. In the final project, the students will create a set of working drawings and a model of a structure that they design.

Computer Programming (0810)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Algebra I

The Introduction to Computer Science in Python 3 course teaches the fundamentals of computer programming as well as some advanced features of the Python language. Students will develop an appreciation for how computers store and manipulate information by building simple console-based games. This is a challenging course equivalent to a semester-long introductory Python course at the college level. Students will also explore the world of robotics and Arduino. Students enrolled in Computer Programming may **challenge** the AP Computer Science Exam.

Principles of Engineering (POE) (0715)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	Design & Drawing for Production

POE is a full year course designed for students interested in exploring technical education. Students will explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, automation and robotics. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

Electricity / Electronics (0811)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

This course teaches students identification of electronic components, schematic symbols, soldering, electron theory, and digital meter reading. The students can identify career opportunities and understand the basic concepts of electricity and electronics through “hands on” experiments. Laboratory projects include a variable power supply, burglar alarm, and student designed Plexiglas bases for support, display and safety.

Graphic Communications (0808)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

This course exposes students to the world of graphic communication by working individually and cooperatively on a variety of hands-on projects. Using our state-of-the-art computer lab, students research, design, and construct a hallway bulletin board on a topic of their choice. For the second quarter, students use computer- generated images and lettering to be incorporated into traditional multi-color silk screen printing. The students learn the use of several wood working machines in the construction of the silk screen frames. Students explore established logos and create their own logos using wood burning tools and silk screen printing.

Production Systems (0809)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

This course involves the processing of materials and knowledge to make new products. The construction part of the class involves the research, design, and construction of a solid or laminate canoe paddle. The manufacturing part of the class involves learning and using new AC/DC arc welding equipment, procedures, different types of welds, strategies for better welds, careers in the welding field, and leading to a progression to current MIG welding techniques.

Engineering Design and Development (EDD) (0712)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	12	STEAM

Students will apply the knowledge and skills acquired throughout the STEAM program as they identify an issue and then research, design, test a solution, and ultimately present their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

Computer Aided Design (CAD I) (0824)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	10-12	DDP

Computer Aided Design (CAD) I is a full year course designed to teach students how to use the Autodesk Inventor Solid modeling software. The course builds on the technical drawing concepts learned in DDP. Students will learn about the different types of engineering drawings, technical documentations, 3 dimensional printing (3D), laser engraving/cutting, and traditional production tools and techniques. Students will take a hands on approach to product development, problem solving, teamwork, and creativity. CAD students will use the 3D printers CNC mill, laser engravers and production lab to turn their designs into physical models. The activities, tutorials, and projects are focused on developing the student's skills in design, modeling, rapid prototyping, and technical documentation.

Computer Aided Design (CAD II) (0825)

Units of Credit	Duration	Grade Level	Prerequisite
1.0	40 weeks	11-12	CAD I

This course is offered to students who have taken Computer Aided Design I and have learned the basics of Autodesk Fusion 360 Solid modeling software. CAD II will allow students to build on their knowledge of design and drawing with the computer. Student will take a hands-on approach to product development, problem solving, teamwork, and creativity. Using industry grade modeling software, students will explore the world of rapid prototyping through the use of 3D printers, laser engravers/cutters. Students will also be introduced to Computer Numeric Control (CNC) machining by using our 2-axis Mazak CNC lathe and 3-axis Mazak CNC milling machine.

Engines (0805)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

Students will apply creative thinking, decision-making, and problem-solving skills to develop solutions to problems. This course provides an overview of 4-cycle engines, transmission overhaul, and an introduction to diesel. Topics include blueprinted engine building, and motion planning; mechanism design of stroker engines, use of diagnostic equipment, field trips to local engine machine shops and custom garages. Shop time will provide experience with engine internals and how to build efficient torque and horsepower. Students will design and fabricate running and working engines and transmissions in group-based projects.

Engines II (XXXX)

Units of Credit	Duration	Grade Level	Prerequisite
.5	20 weeks	10-12	None

Students will apply creative thinking, decision-making, and problem-solving skills to develop solutions to problems. This course is a continuation of Engines I. Students will be dealing with customers. They will provide them with a diagnosis, an estimate, and perform the repairs of 2 and 4-cycle engines. This course has a prerequisite of Engines I. Topics include blueprinted engine building, and motion planning; mechanism design of stroker engines, use of diagnostic equipment, field trips to local engine machine shops, and custom garages. Shop time will provide experience with engine internals and how to build efficient torque and horsepower. Students will design and fabricate running and working engines and transmissions in group-based projects.

Ormsby Educational Center Programs

Automotive Body Repair teaches entry-level shop skills, including metal straightening, aligning, replacing, MIG welding, body filling, painting, buffing and detailing. Certifications are available.

Automotive Technology provides students with real-world work experience following Automotive Service Excellence guidelines. Students work with power tools, electronic diagnostic equipment, computerized front-end machinery, and emissions test equipment.

Computer Assisted Design & Drafting (CADD) is for students interested in digital and graphic design and animation. Students can specialize in one or more fields, including 3-D modeling and animation, 3-D modeling and animation, 3-D modeling and game design, digital graphics and design, computer aided mechanical or architectural design or manufacturing.

Conservation/Natural Resource Management prepares students for a wide variety of careers in natural resource management, including forestry, heavy equipment, landscaping and aquaculture. Instruction takes place inside the classroom, outdoor labs, shops and the greenhouse. OSHA certification also available.

Construction Technology students gain knowledge in carpentry, electrical work, plumbing, masonry, and blueprint reading which prepares them for a variety of construction-related occupations. Students will learn proper use of hand/power tools, safety and construction procedures and blueprint reading. OSHA certification also available.

Cosmetology students learn a variety of hair and makeup techniques and beauty treatments. Areas of study include: hair coloring, perming, cutting and styling and nail care including pedicures, manicures, and artificial nail application.

Criminal Justice is designed for students interested in the areas of criminal justice, law enforcement or public/private security. This program provides students with a foundation in legal theory and the enforcement of criminal law. All aspects of police work are thoroughly explored.

Culinary Arts students learn essential components of the foodservice and hospitality industry including menu planning, food preparation, cutting techniques, recipe conversion, equipment operation, baking, and ice carving.

Health Careers students learn entry-level skills, earn valuable industry certifications and have the opportunity to work first-hand in a variety of health care-related fields. Students study basic anatomy and physiology, diseases and disorders, medical terminology, medical ethics, nutrition, geriatrics, child development, infection control, maternal/child health, first aid, physical therapy and pharmacology.

Power Equipment Technology students learn heavy equipment safety/maintenance, basic shop and safety skills and a wide variety of welding, power tool and small engine fundamentals. This program was formerly known as Diesel Mechanics / Heavy Equipment Repair.

Small Animal Science teaches students specialized and advanced skills in areas such as veterinary assistance, the care and handling of animals in a laboratory or veterinary setting, and kennel and pet shop management.

Small / Large Animal Science teaches students first-aid, nutrition, dog grooming and animal management in veterinary and farm settings. Students gain knowledge of dogs, cats, horses, goats and alpaca. A portion of programing takes place at Lothlorien Therapeutic Riding Center.

Sports Conditioning and Exercise Science provides foundational skills and knowledge for students choosing to pursue professional certifications in personal training and further education in athletic training, physical therapy, chiropractic, massage therapy and dietetics.

Welding and Metal Fabrication students develop specialized and sought-after skills for employment in the welding and metal fabrication industry. Students learn up-to-date welding and metal fabrication techniques and procedures in a variety of areas.

2022-2023 SCHOOL YEAR

MAJOR ITEMS RECOMMENDED
DO NOT BUY BEFORE SCHOOL STARTS

PROGRAM	ITEMS	APPROX. COST
Auto Body	Work boots, coveralls, 3-ring notebook, safety glasses Paint respirator and cartridge Optional: calculator (cost varies)	**$120**
Auto Technology	Steel Toe Safety boots, blue work shirt and pants, safety glasses	**$100**
CADD	2" – 3 ring binder, jump drive – 8 GB	**$15**
Conservation	Steel Toe Boots, work pants & shirt, safety glasses, winter clothing, gloves, and notebook for notes/handouts	**$150**
Construction Tech.	Work boots, appropriate work clothing, tape measure, safety glasses, hammer, 4 in 1 screwdriver.	**$150**
Cosmetology	See separate letter	
Criminal Justice	Uniform (includes boots) Optional dues (Explorer $35, Skills $20)	**$195**
Culinary Arts	See separate letter	
Health Careers	Uniform, black shoes, wristwatch w/second hand, physical, black crew socks, scrub top. (see separate letter)	**$100**
Power Equipment	Work boots, coveralls, notebook, safety glasses, calculator, pens	**$125**
Small Animal	Scrubs, 4" 3 ring binder, safety glasses	**$35**
Small & Lg. Animal	Scrubs, safety glasses, 3" – 3 ring notebook, loose leaf paper and flash drive**. Seniors will also need cold weather gear, Work boots (no steel-toed) for farm visits**.	**$35**
Sports Conditioning	Two shorts, two t-shirts, one drawstring backpack ($50 kit), (1) 3" and (1) 1" 3 ring binder, exercise sneakers, ACE Essentials of Exercise Science Manual ($40)	**$110**
Welding	Welding jacket and jeans or overalls, welding gloves, safety glasses, Welding Helmet (optional one will be available), Leather work boots, 3 ring binder (see separate letter)	**$100**

Do not buy any of the items listed before school starts. (Wait for teacher advisement)

Note:

1. Uniforms will be purchases as per information given to you by your instructor.
2. Safety glasses may be purchased through the Career-Tech center at $2.00/pair
3. "Work boot" is a generic term describing footwear appropriate for the particular trade area, e.g. leather top and hard sole.
4. Arrangements can be made for students with financial hardships.