

## ART / MUSIC

### AP ART HISTORY (1 credit)

#### Grades: 12

The AP Art History course is a yearlong survey of art and architecture across centuries, cultures, and styles. In this course students will cover art and architecture created from the Ancient World to the 20th Century and beyond.

They will develop an appreciation and understanding of art and architecture using these seven key concepts: Identification and Attribution, Visual Analysis, Contextual Analysis, Finding Meaning, Interdisciplinary Awareness, Reading Skills, and Writing Skills. By using these concepts, students will be able to identify works of art, artists, and styles.

*AP Exam: Exam fees are to be paid by the student. The individual school district orders the exam on behalf of the student and administers it.*

### ART APPRECIATION (.5 credit)

#### Grades: 9-12

What makes an artwork a masterpiece? Why do artists create art? What is the difference between Rococo and Art Nouveau? In this course, students will discover the answers to these questions and more. We examine the elements of art and principles of design, and explore how artists have used these elements and principles in the creation of art for centuries.

Major Concepts:

- Elements of Art & Principles of Design
- Ancient Art
- Aegean, Greek, Etruscan, and Roman Art
- Medieval Art
- The Renaissance to Rococo
- Pre-modern Art
- Modern Art
- Modernism and Post-modernism

## ART HISTORY (.5 credit)

Grades: 9-12

This Art History course integrates the four components of art study: art production, historical and cultural context, critical process and aesthetic process. Students will be able to identify and describe art from prehistoric times to modern time. Throughout this course, students will discuss various artworks, research artists, and create documents and presentations demonstrating concepts learned.

The following are Enduring Understandings of this course:

- Viewing and creating works of art involves a deliberate process of making decisions and judgments.
- Art and architecture were influenced by emerging cultures and significant, and lasting artistic contributions have been made by the major civilizations.
- The rise of Christianity influenced art and artists in the period between the Roman Empire and the Renaissance.
- Significant changes in art techniques and purpose emerge during the Renaissance, Baroque and Rococo periods.
- Although art during the modern era is diverse and different from most earlier styles, modern artists are still influenced by art from the past.

## ART IN WORLD CULTURE (.5 credit)

Grades: 9-12

Who is the greatest artist of all time? Is it Leonardo daVinci? Claude Monet? Michelangelo? Pablo Picasso? Is the greatest artist of all time someone whose name has been lost to history? You will learn about some of the greatest artists while also creating art of your own, including digital art. We will explore the basic principles and elements of art, learn how to critique art, and examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art.

## DIGITAL PHOTOGRAPHY (.5 credit)

Grades: 9-12

Have you ever wondered how photographers take such great pictures? Have you tried to take photographs and wondered why they didn't seem to capture that moment that you saw with your eyes? The Digital Photography I course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will be introduced to the history of photography and basic camera functions. Students will use the basic techniques of composition and camera functions to build a portfolio of images, capturing people, landscapes, close-up, and action photographs. *Required Materials: digital camera of 2 megapixels or more with a minimum 3x zoom lens. Digital zooms are permitted but not recommended. Download free Gimp software. Various props for staging photographs. Student must have access to a computer in order to download the photo editing software.*

### AP MUSIC THEORY (1 credit)

Grades: 11-12

The Music Theory course is the study of melody, harmony, texture, rhythm, form, musical analysis, elementary composition and, to some extent, history and style. Skills in musical dictation and listening, sight-singing, and basic keyboard harmony are an important part of the AP theory course.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**Prerequisite:** Students should have a minimum of three years of past musical study, (piano, instrumental, vocal or composition) and an ability to identify note names, perform basic rhythmic figures and identify keys.

### MUSIC APPRECIATION (.5 credit)

Grades: 9-12

Have you ever heard a piece of music that made you want to get up and dance? Cry your heart out? Sing at the top of your lungs? Whether pop, classical, or anything in between, music provides a powerful way for people to celebrate their humanity and connect with something larger than themselves. Music Appreciation: The Enjoyment of Listening not only will provide a historical perspective on music from the Middle Ages to the 21st century, but it will also teach you the essentials of how to listen and really hear (with a knowledgeable ear) the different music that's all around you. Learning how to truly appreciate sound and melody is the best way to ensure a continued love of this delightful art form.

## BUSINESS

### ACCOUNTING (1 credit)

Grades: 10-12

Course curriculum is designed to provide students a strong foundation in accounting principles. Students will learn what business transactions are and how accountants use a double-entry system (debits and credits) to keep track of these transactions. Next students will study the complete accounting cycle of recording transactions, preparing financial statements, and "closing the books" for small, single-owner service and merchandising businesses. This course prepares students for post-secondary accounting courses.

**Required Materials:** Excel software is required; Google Sheets is prohibited.

### ADVERTISING & SALES PROMOTIONS (.5 credit)

Grades: 9-12

What comes to mind when you think of "marketing"? Perhaps a familiar television jingle plays in your head? Or maybe you think of those irritating sales phone calls? There's no denying the sheer magnitude and power of the marketing industry. Every year companies spend approximately \$200 billion promoting their products and services – and that's just in the United States alone! You may be familiar with being on the receiving end marketing, but what's it like on the other side? In Advertising and Sales Promotions, you'll see how these marketing campaigns, ads, and commercials are brought to life and meet some of the creative folks who produce them. You'll learn about different marketing career opportunities and discover ways to be part of this exciting, fast-paced industry.

**BUSINESS LAW (.5 credit)**

**Grades: 9-12**

Students learn about the American legal system. They examine ethics, court systems, criminal law, and law of torts. They examine how the court systems work together, and what misconduct results in going to court. It is important to also understand your consumer rights. As they progress through the course, they will also gain an understanding from a business perspective what is right and wrong business actions and employment laws. As an employee or employer it is important to understand the laws that protect the employee and employer. The study will focus on the formation of a business and the basic legal issues associated with each type of business.

**COLLEGE & CAREER READINESS (.5 credit)**

**Grades: 10-12**

Do you ever wonder what you will do after high school? This course will show you the educational and career opportunities available to you. You will learn how to get accepted and pay for college, how to find a job, and how to plan for a successful future.

Throughout the course, you will be coached by Mawi Asgedom, a Harvard graduate who was the first in his family to attend college, and is now a student leadership expert who has trained over 1,000,000 students.

**ENTREPRENEURSHIP: STARTING YOUR BUSINESS (1 credit)****Grades: 9-12**

What does it really take to own your own business? Does the sound of being your own boss make you feel excited or anxious? Either way, Entrepreneurship: Starting Your Business will get you started in the right direction. This course explains the ins and outs of such an enterprise, giving you the confidence needed to be your very own boss. You will discover what is needed to operate a personal business from creating a plan, generating financing, and pricing products to marketing services and managing employees. If you've ever dreamed of being a true entrepreneur but feel daunted by the prospect, this is your chance to learn all you need to know.

**FASHION & INTERIOR DESIGN (1 credit)****Grades: 9-12**

In this course, you'll explore what it is like to work in the industry by exploring career possibilities and the background that you need to pursue them. Get ready to try your hand at designing as you learn the basics of color and design then test your skills through hands-on projects.

**Requirement:** Students must have access to a working sewing machine as they will use it to create an item. A sewing machine will NOT be provided by BOCES or student's district.

**HOSPITALITY & TOURISM: HOTEL & RESTAURANT MANAGEMENT 2A (.5 credit)****Grades: 9-12**

If you love working with people, a future in hospitality may be for you. In Part A of Hospitality and Tourism 2: Hotel and Restaurant Management, you will learn about what makes the hotel and restaurant industries unique. Learn about large and small restaurants, boutique and resort hotels, and their day-to-day operations. Evaluate the environment for these businesses by examining their customers and their competition. As well, you will discover trends and technological advances that makes each industry exciting and innovative. In Part A, you can explore a variety of interesting job options from Front Desk and Concierge services to Maître'd and food service.

**HOSPITALITY & TOURISM: HOTEL & RESTAURANT MANAGEMENT 2B (.5 credit)****Grades: 9-12**

Building upon the prior prerequisite course, students will embark on their journey to becoming managers in the hotel and restaurant industry by gaining knowledge and developing a variety of skills. Students will learn of different management styles, laws, and regulations that govern hotels and restaurants as well as how to develop job descriptions and business plans. In addition, students will learn how to create menus, advertise vacancies, perform interviews, and understand financials of the hotel or restaurant.

**HOSPITALITY & TOURISM: Traveling the Globe (.5 credit)****Grades: 9-12**

With greater disposable income and more opportunities for business travel, people are traversing the globe in growing numbers. As a result, hospitality and tourism is one of the fastest growing industries in the world. This course will introduce students to the hospitality and tourism industry, including hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other areas. Student will learn about key hospitality issues, the development and management of tourist locations, event planning, marketing, and environmental issues related to leisure and travel. The course also examines some current and future trends in the field.

**INTERNATIONAL BUSINESS: GLOBAL COMMERCE IN THE 21ST CENTURY (.5 credit)****Grades: 9-12**

Imagine meeting with suppliers at an office in Europe while calling your salesroom that's back in Asia. Imagine investing in foreign markets and visiting partners in exotic locales. With the evolution of current technology, our world is more connected than ever before, and the business community today is larger than ever. International Business: Global Commerce in the 21st Century will demonstrate just how you can gain the knowledge, skills, and appreciation to live and work in the global marketplace. You will begin to understand how both domestic and international businesses are affected by economic, social, cultural, political, and legal factors and what it takes to become a true manager of a global business in the 21st century.

**INTRODUCTION TO BUSINESS (.5 credit)****Grades: 9-12**

This course introduces students to the basic business concepts that will help them understand how a business survives in today's economy and the role that consumers play in the same economy. Students will learn how to balance a checkbook, save for the future, and use credit wisely. Students will also learn how to create a resume and how to participate in a job interview.

**KEYBOARDING (.5 credit)****Grades: 9-12**

Keyboarding and Applications is a semester-long elective that teaches students keyboarding skills, technical skills, effective communication skills, and productive work habits. In this course, students will learn about proper keyboarding technique while building their accuracy and speed skills. Students will gain an understanding of computer hardware, operating systems, file management, and the Internet. In addition, they will apply their keyboarding skills and create a variety of business documents, including word processing documents and electronic presentations.

**LEADERSHIP SKILLS DEVELOPMENT I (.5 credit)****Grades: 9-12**

In this course, students will acquire new power to succeed in high school, college, and life. Students will learn how to take action by pressing their Turbo Button, manage their time by staying in the Lasting Zone, chart their goals by creating a North Star, and many other proven leadership techniques developed by Mawi Learning, a leadership training organization that has worked with more than one million students. Whether students are struggling or already at the top of their game, Leadership Skills Development will give them new power to create the life of their dreams.

**LEADERSHIP SKILLS DEVELOPMENT II (.5 credit)****Grades: 9-12**

Increase your confidence and build your social skills as you learn how to conquer peer pressure, social anxiety, and the unnecessary risks that can derail your future. In this class you'll discover how your "super-charged" teen brain really works, so you can make better decisions and achieve more. As you journey through this course you are inspired and coached by Mawi Asgedom, a Harvard graduate and leadership expert who has trained over one million students.

**PERSONAL & FAMILY FINANCE (.5 credit)****Grades: 9-12**

We all know money is important in life. But how important? In fact, the financial decisions you make today may have a lasting effect on your future. Rather than feeling anxious about money feel empowered by learning how to make smart decisions! Personal and Family Finance will begin the conversation around how to spend and save your money wisely, investing in safe opportunities and the days ahead. Learning key financial concepts around taxes, credit, and money management will provide both understanding and confidence as you begin to navigate your own route to future security. Discover how education, career choices, and financial planning can lead you in the right direction to making your life simpler, steadier, and more enjoyable.

**SOCIAL MEDIA (.5 credit)****Grades: 9-12**

In this course, you will learn that the world of Social Media revolves around you—your actions, decisions, and interests. You will examine how Social Media has evolved and how your digital footprint makes a bigger impression than your physical one.

**SPORTS & ENTERTAINMENT MARKETING (.5 credit)****Grades: 9-12**

You'll have the opportunity to explore basic marketing principles and delve deeper into the multi-billion dollar sports and entertainment marketing industry. You'll learn about how professional athletes, sports teams, and well-known entertainers are marketed as commodities and how some of them become billionaires as a result.

**WEB DESIGN (.5 credit)****Grades: 9-12**

In this course, students will learn how to design a beautiful and functional website. Students will learn how to take their design and translate it into a live website using Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) programming languages. HTML5 and CSS3 will be the standard versions used in the class. Students will understand design components of websites, including the use of color, layout and when to use different techniques, typography rules, and the importance of imagery. At the conclusion of the course, students will present a website to the class. Upon completion of this course, each student will have hands-on experience creating a fully functioning website.

**Requirements:** Student will be required to create a free account with Neocities.org and use it throughout this course.

## CTE

**CAREERS IN CRIMINAL JUSTICE (.5 credit)****Grades: 9-12**

The criminal justice system offers a wide range of career opportunities. In this course, students will explore different areas of the criminal justice system, including the trial process, the juvenile justice system, and the correctional system.

**MILITARY CAREERS: Introduction (.5 credit)****Grades: 9-12**

You've probably seen an old movie about a hotshot naval aviator, or perhaps a more recent film about the daring actions of Special Forces operatives. But do you really know what careers the military can offer you? Introduction to Military Careers will provide the answers. The military is far more diverse and offers many more career opportunities and tracks than most people imagine. In Introduction to Military Careers, you'll learn not only about the four branches of the military (and the Coast Guard) but also about the types of jobs you might pursue in each branch. From aviation to medicine, law enforcement to dentistry, the military can be an outstanding place to pursue your dreams.

## COMPUTER SCIENCE

**AP COMPUTER SCIENCE A (1 credit)****Grades: 11-12**

The AP® Computer Science A course is equivalent to the first semester of a college level computer science course. The course involves developing the skills to write programs or part of programs to correctly solve specific problems. AP® Computer Science A also emphasizes the design issues that make programs understandable, adaptable, and when appropriate, reusable. At the same time, the development of useful computer programs and classes is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. In addition an understanding



of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course.

**Technology Requirements:** *Students must have access to a computer system that represents relatively recent technology (PIII). Schools need to have Java and Bluj software already installed on a designated machine(s) before the course starts and enough memory in their lab machines (128 MB) so that students will be able to compile and run Java and BluJ programs efficiently.*

**AP Exam:** *Exam fees are to be paid by the student. The individual school district orders the exam on behalf of the student and administers it.*

**Pre-requisites:** *Algebra I is required. Algebra II is highly recommended. Prior coding experience is highly recommended. An online preparation course is highly recommended and that is Introduction to Computer Science.*

### FOUNDATIONS OF PROGRAMMING (.5 credit)

**Grades: 9-12**

Do you want to learn the skills required to be competitive in today's high tech workforce? Foundations of Programming (FoP) will teach students the fundamentals of programming using the computer language Python. The course provides students with the concepts, techniques, and processes associated with computer programming and software development. Students will also explore the many programming career opportunities available in this high-demand field.

**Required Materials:** *A computer is required; tablets and Chromebooks can't be used for this course.*

### INTRODUCTION TO COMPUTER SCIENCE (1 credit)

**Grades: 9-12**

An interactive introductory course for students brand new to programming that teaches the foundations of computer science using the Python language. This year-long course will prepare students for AP Computer Science A as well as teach students how to think computationally and solve complex problems, which are skills that are important for every student.

### JAVASCRIPT (.5 credit)

**Grades: 9-12**

In this course, students will learn how to start programming with JavaScript. Students will learn the basics of JavaScript including testing, functions, objects, arrays, loops, conditional code, operators and syntax basics. Students will learn timing and animations, and how to debug. The class will conclude with a robust project that incorporates everything they learned in the semester.

**Prerequisite Recommendation:** *It is highly recommended that students take Web Design before taking this course.*

**PROGRAMMING WITH ALICE (.5 credit)****Grades: 9-12**

Alice is an innovative 3D programming environment that makes it easy to create an animation for telling a story, playing an interactive game, or a video to share on the web. Alice is a free software tool designed to be your first exposure to object-oriented programming. It allows you to learn fundamental programming concepts in the context of creating animated movies and simple video games. In Alice, 3-D objects (e.g., people, animals, and vehicles) populate a virtual world and you create a program to animate the objects. Alice is developed and supported at Carnegie-Mellon University with financial support from Oracle, Electronic Arts, Sun Microsystems, DARPA, Intel, Microsoft, NSF and ONR. The director of the project is Wanda Dann.

**PROGRAMMING WITH SCRATCH (.5 credit)****Grades: 9-12**

Learn to program with the visual computer programming language Scratch. Scratch was developed at MIT's Lifelong Kindergarten Group. It allows users to explore basic programming concepts while creating multimedia programs, games and simulations. This course will help users to learn basic programming concepts and problem solving skills and take a deeper dive into more complex concepts including variables, loops, string processing and lists.

**Requirement:** *Students under age 13 require parental/guardian permission and email address. A computer is required; tablets and Chromebooks can't be used. Students must be able to download files to be used with the web-based programming in Scratch.*

**WEB DESIGN (.5 credit)****Grades: 9-12**

In this course, students will learn how to design a beautiful and functional website. Students will learn how to take their design and translate it into a live website using Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) programming languages. HTML5 and CSS3 will be the standard versions used in the class. Students will understand design components of websites, including the use of color, layout and when to use different techniques, typography rules, and the importance of imagery. At the conclusion of the course, students will present a website to the class. Upon completion of this course, each student will have hands-on experience creating a fully functioning website.

**Requirements:** Student will be required to create a free account with Neocities.org and use it throughout this course.

## ENGLISH

### AP ENGLISH LANGUAGE AND COMPOSITION (1 credit)

**Grades:** 11-12

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. The college composition course for which the AP English Language and Composition course substitutes is one of the most varied in the curriculum.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**Pre-Requisites:** Teacher recommendation, English I, II (honors), with a B+ average

### CONTEMPORARY NOVELS (.5 credit)

**Grades:** 9-12

For this course, students will read a set of novels and novellas that were written during the twentieth century and reflect themes common to contemporary literature, such as the ability of the human spirit to rise above seemingly-impossible circumstances. Through creative projects and writing assignments, students will identify and analyze each novel's themes and also compare and contrast the novels' treatment of common themes. Please note that, like most contemporary literature, the novels assigned for this course contain realistic situations and language. In addition to the novels listed, each student will read another contemporary novel of his or her choosing that the instructor must approve. MLA (Modern Language Association) documentation is required on all papers submitted. The following novels are read during this course.

- Picture Bride By Yoshiko Uchida
- Night By Elie Weisel
- To Kill a Mockingbird By Harper Lee
- Fallen Angels By Walter Dean Myers
- The Old Man and The Sea By Ernest Hemingway
- Rita Hayworth and Shawshank Redemption  
By Stephen King

**CREATIVE WRITING (.5 credit)****Grades: 9-12**

For many hundreds of years, literature has been one of the most important human art forms. It allows us to give voice to our emotions, create imaginary worlds, express ideas, and escape the confines of material reality. Through creative writing, we can come to understand ourselves and our world a little bit better. This course provides students with a solid grounding in the writing process, from finding inspiration to building a basic story to using complicated literary techniques and creating strange hybrid forms of poetic prose and prose poetry. By the end of this course, students will learn how to discover their creative thoughts and turn those ideas into fully realized pieces of creative writing.

**ENGLISH 9 (1 credit)****Grade: 9**

In English 9, students take a journey through important concepts—the Unknown, Equality, Identity, Opportunity, and Understanding—to learn the foundations of communication and analysis. In each unit of the course, students explore a variety of STEM-related literature, including genre fiction, poetry, non-fiction, and speeches. Through the study of this writing, students hone their own skills in communication and analysis.

To facilitate engagement and academic responsibility, students are encouraged to make choices at different points in the course. Most notable is the novel unit, in which students must select their book from a list of titles available. This practice gives ownership to the student and places each learner in a position to develop a deeper appreciation of reading.

**ENGLISH 10 (1 credit)****Grade: 10**

In English 10, students learn how the human experience—real life—is the foundation of the best stories, plays, poems, films, and articles. In each unit of the course, students explore a specific aspect of the human experience such as laughter, obstacles, betrayal, fear, or transformation. Through the study of literature, nonfiction, and life, students explore what it means to be human, what it means to be fulfilled, triumphant, empowered, and transformed.

As in life, students have many choices in the English II course. They choose the order in which they complete the units. Students also choose some of the works they read and have countless choices when it comes to demonstrating what they have learned. Whether reading a poem or a novel, writing a story or an analysis, or studying a Shakespearean tragedy or a modern suspense film, students explore what it means to be human, a subject on which they are already experts!

**ENGLISH 11 (1 credit)****Grade: 11**

“Extra, extra, read all about it!” It’s all right here in black and white, in the pages of The Virtual Times newspaper. Published at key periods in American history, The Virtual Times takes us right into the action. The writing is clear and concise. The stories and opinions give us perspective. The sports and entertainment sections give us the color and flavor of the times.

In English III, the writing and insights of authors throughout our history are collected in the fast-paced pages of The Virtual Times. Students gain an appreciation of American literature and the ways it reflects the times in which it was written. They discover how people thought and lived and wrote about their experiences. Students are also asked to observe, investigate, and report on stories of today. The goal is for students to be thorough, accurate, and compelling in their writing.

**ENGLISH 12 (1 credit)****Grade: 12**

Why do people do what they do? English IV you will give you a front row seat to study of the motives that have driven people’s actions for centuries. Along the way you will encounter epic heroes defying danger, tormented minds succumbing to the power of greed and ambition, enlightened thinkers striving for individual rights and freedoms, sensitive souls attempting to capture human emotion, and determined debaters taking a stand on critical issues. You will read to analyze the way language is used to express human motivation and research to examine the results of actions in the real world. The lessons in each module will give you the tools you need to gain insights from what you read and to use your knowledge in creative and analytical writing.

**FILM & TELEVISION (.5 credit)****Grades: 9-12**

The culture of cinema and television tells a unique story of history and innovation. Students in Film and Television will be introduced to industry icons and stars of the big and small screen. By studying and writing about film and television, students will analyze trends in technology and culture and better understand how to be an informed viewer.

**JOURNALISM (.5 credit)****Grades: 9-12**

Understanding the role of the free press in America helps us to be better informed and more able to analyze media. In this course, you will explore the history of journalism in the United States from its inception in the colonies and its key role in the first amendment, all the way up to present day issues regarding “right to know” and the changing landscape of journalistic media in the 21st century. You will acquire the skills and information needed to actively participate in the consumption, analysis, and creation of news media and will have the opportunity to investigate the constantly evolving career opportunities within the field of journalism.

## THE LORD OF THE RINGS: An Exploration of the Films & Their Literary Influences (.5 credit)

### Grades: 9-12

Hobbits, Orcs, wizards, dashing knights, and powerful elves are all part of the magic created in J.R.R. Tolkien's famously epic tale, *The Lord of the Rings*. For years, the vivid characters within this beloved story could exist only in the "reader minds" until it was adapted into a movie that allowed fans to finally see, through the eyes of Hollywood magic and brilliant technology, the manifestation of these characters onscreen. What does it take to transport these well-known images like Gollum and the Shire from dusty pages to the giant screen? In *The Lord of the Rings: An Exploration of the Films & Its Literary Influences*, you will see first-hand how classic literature can become modern film and bring the fantasy alive for a whole new generation of believers. **Required Materials:** You will be required to own or have access to the standard (non-extended) versions of the three *Lord of the Rings* films. Cayuga-Onondaga BOCES will not provide the films for this course. If you do not already have access to these movies, you may consider other sources such as your local library.

- The Lord of the Rings: The Fellowship of the Ring
- The Lord of the Rings: The Two Towers
- The Lord of the Rings: The Return of the King

## THEATRE STUDIES (.5 credit)

### Grades: 9-12

Lights! Camera! Action! Let's explore the enchanting world of live theater and its fascinating relationship to the silver screen. In Theater, Cinema, and Film Production, you'll learn the basics of lighting, sound, wardrobe, and camerawork while examining the magic that happens behind all the drama. Delve into the glamorous history of film and theater, and examine the tremendous influence these industries have had on society and culture over the years. During this unit, you'll discuss and analyze three classic American films "*Casablanca*, *Singing in the Rain*, and *The Wizard of Oz*" to help you learn how to critique and appreciate some of the most famous dramas of all time.

## FOREIGN LANGUAGES

### AMERICAN SIGN LANGUAGE 1a & 1b (1 credit)

#### Grades: 9-12

1a: Did you know that American Sign Language (ASL) is the third most commonly used language in North America? American Sign Language 1a: Introduction will introduce you to vocabulary and simple sentences, so that you can start communicating right away. Importantly, you will explore Deaf culture – social beliefs, traditions, history, values and communities influenced by deafness.

1b: The predominant sign language of Deaf communities in the United States, American Sign Language is a complex and robust language. American Sign Language 1b: Learn to Sign will introduce you to more of this language and its grammatical structures. You will expand your vocabulary by exploring interesting topics like Deaf education and Deaf arts and culture.

**AMERICAN SIGN LANGUAGE 2a & 2b (1 credit)****Grades: 9-12**

2a: Building upon the prior prerequisite course, emphasis in this course is placed upon comprehension and signing. Learners will also continue to establish their communication skills and foster their understanding of deaf culture. In addition to learning classifiers, glossing, and mouth morphemes, students will explore vocabulary for descriptions, directions, shopping, making purchases, and dealing with emergencies.

2b: Building upon the prior prerequisite course, students will increase their proficiency by learning about sequencing, transitions, role-shifts, and future tenses. Students will learn how to tell a story and ask questions, benefiting with greater exposure to deaf culture. Speed, conversations, signing skills, and cultural awareness are characteristic of this course.

**FRENCH I (1 credit)****Grades: 9-12**

A multi-media, game-based approach makes this introductory French course different from traditional approaches to language learning. Advanced teaching techniques are used to turn compelling adventures and activities into rigorous lessons in grammar and vocabulary. This course provides a solid foundation for reading, speaking, writing, and understanding French and cultivates a passion for the language through exposure to culture and dynamic experiences of real people and real places. This course also features adaptive learning technology that lets students select the learning style that's right for them.

**Requirement:** Student will need microphone and recording device capabilities on computer. Webcam is optional.

**FRENCH II (1 credit)****Grades: 9-12**

Students with a beginning foundation in French will see their skills soar through compelling lessons that give them access to content so interesting that they forget that they are learning French. This unique learning methodology, which relies heavily on games and stories, works effectively to take students from a tentative understanding of French basics to a greater level of sophistication. This course concentrates on students' ability to articulate more and more complex thoughts and to understand authentic native language from a variety of enticing sources.

**Prerequisite:** French I online

**Requirement:** Student will need microphone and recording device capabilities on computer. Webcam is optional.

**LATIN I (1 credit)****Grades: 9-12**

There is a reason "all roads lead to Rome." Maybe it is because Romans built much of the ancient world's highway system. Maybe it is also because the Roman culture and Latin language laid the foundation for much of Western culture. In this course, students find out for themselves as they take their first steps on a lifelong journey of discovery.

Students improve their command of the English language by studying Latin. Students also gain a better understanding of today's laws and culture by getting into the Roman mind. Latin I is the most comprehensive way to begin.

The purpose of this course is to give students a foundation in Latin grammar and vocabulary. This course also acquaints students with Olympic gods and with the everyday life of the typical Roman. The course sets the students' feet on a journey as big as their imagination, with a passport to some of the world's most exciting places.

**Requirement:** Student will need microphone and recording device capabilities on computer. Webcam is optional.

### LATIN II (1 credit)

**Grades:** 9-12

A story of epic proportions. History-changing battles, great poets and statesmen, classic art and architecture, and a language that was heard throughout most of the known world. In Latin I, you read the opening credits of this epic movie. In Latin II, the plots and the characters that populated ancient Rome will come alive. In this course, you'll build on your knowledge of Latin grammar and vocabulary. In the process, you'll sense the beauty of the language and the passion of those who spoke it. Roman engineering, art, commerce and system of laws were all supported by a clear, expressive and flexible language - a language in which you will be able to communicate.

This course will give you a solid grounding in the structure of the language. It will also give you a clear lens for looking into the heart and majesty of the Roman spirit.

**Prerequisite:** Latin I online

**Requirement:** Student will need microphone and recording device capabilities on computer. Webcam is optional.

### LATIN III (1 credit)

**Grades:** 9-12

In Latin III, students take their knowledge and appreciation of Latin to the next level. Students read some of the best Latin prose and poetry ever written or spoken. Caesar tells how he conquered the three parts of Gaul. Cicero reminds Romans of the virtues that made their country great. Catullus shows how he could express the deepest human emotions in just a few, well-chosen words. In Latin III, students visit the library of great authors. The library card gives them access to the timeless words of the greatest Roman poets, storytellers, and orators. Students' skills with the Latin language give them direct access to the beauty and power of these great authors' thoughts. The purpose of this course is to strengthen students' Latin vocabulary as well as their appreciation for well-crafted writing. Students go directly to the source and recognize why Latin and those who spoke it are still relevant today.

**Prerequisite:** Latin II online. **Requirement:** Student will need microphone and recording device capabilities on computer. Webcam is optional.



**SPANISH I (1 credit)****Grades: 8-12**

A multi-media, game-based approach makes this introductory Spanish course different from traditional approaches to language learning. Advanced teaching techniques are used to turn compelling adventures and activities into rigorous lessons in grammar and vocabulary. This course provides a solid foundation for reading, speaking, writing, and understanding Spanish and cultivates a passion for the language through exposure to culture and dynamic experiences of real people and real places. This course also features cutting-edge adaptive learning technology that lets students select the learning style that's right for them.

**Requirement:** Student will need microphone and recording device capabilities on computer.

**SPANISH II (1 credit)****Grades: 9-12**

Students with a beginning foundation in Spanish will see their skills soar through compelling lessons that give them access to content so interesting that they forget that they are learning Spanish. This unique learning methodology relies heavily on games and stories, works effectively to take students from a tentative understanding of Spanish basics to a greater level of sophistication. This course concentrates on students' ability to articulate more and more complex thoughts and to understand authentic native language from a variety of enticing sources.

**Prerequisite:** Spanish I online

**Requirement:** Student will need microphone and recording device capabilities on computer. Webcam is optional.

**SPANISH III (1 credit)****Grade: 10-12**

In Spanish III, students will meet and virtually accompany four teens with Hispanic backgrounds as they learn about and travel to several Spanish-speaking countries. Students have many opportunities to use the Spanish they already know as well as to expand their vocabulary, knowledge of grammar, and experiences with Spanish-speaking countries. The purpose of this course is to provide many experiences where students can use Spanish. Completely immersed in Spanish, students speak, listen, read, write, and collaborate with other students in Spanish within this course. They also gain knowledge and perspectives about Spanish-speaking countries and from Spanish-speaking people.

**Prerequisite:** Spanish II online

**Requirement:** Student will need microphone and recording device capabilities on computer. Webcam is optional.

## HEALTH / MEDICAL

### HEALTH (.5 credit)

Grades: 9-12

This Health course will help you develop the knowledge and skills you need to make healthy decisions that allow you to stay active, safe and informed. The lessons, discussions, research, and writing activities are designed to introduce students to important aspects of the main types of health: emotional and mental, social and consumer, and physical. Students will explore nutrition, understanding and avoiding disease, first aid and CPR, and human sexuality. You will find out about the components of a healthy lifestyle and ways to approach making healthy choices and decisions.

**NOTE:** This course does not fulfill NYSED CPR and Automated External Defibrillators instructional requirement. This requirement must be fulfilled by the student's individual school district.

### INTRODUCTION TO ANATOMY & PHYSIOLOGY (1 credit)

Grades: 11-12

This elective course will provide students with the fundamental concepts in human anatomy and physiology. Students can prepare for higher education, further their studies in a biological interest, and have a foundation for a health-related profession. The course content will include basic structure and function of eleven body systems as well as units on the blood, growth and development, and nutrition and metabolism. Students will master the systems of the human body, structural names and locations, and physiological contributions of these structures through activities, discussions, research, and writing assignments. This course is recommended for mature high school juniors and seniors who are highly self-motivated. The ability to memorize medical terms is essential in this course.

*Textbook Provided: Structure Function of the Human Body*

### MEDICAL TERMINOLOGY: A Short Course (.5 credit)

Grades: 10-12

Would you like to speak the same language as the medical professionals? This is a course for students who are pursuing a medical career where they will learn the foundation of medical terms in the field. Students will master the basics of medical terminology and begin speaking and writing medical terms. Students will build a working medical vocabulary of the most frequently encountered suffixes, prefixes, and word roots in context to the human anatomy and physiology.

## MATH

### ALGEBRA 1 (1 credit)

Grades: 9-10

Algebra I emphasizes the importance of algebra in everyday life through hundreds of real-world examples. Assessments are designed to ensure that your understanding goes beyond rote memorization of steps and procedures. Upon successful course completion, you will have a strong foundation in Algebra I and will be prepared for other higher level math courses.

**ALGEBRA 1A (1 credit)****Grades: 9-12**

Algebra and the world around you. You may not know it, but algebra is behind the scenes of just about everything. How long will it take to get to school? What does it mean to be average in height? What percentage of your time do you spend studying or watching TV? There are ways to measure and calculate everything from the amount of water in a glass, to the amount of glass needed to build a skyscraper.

This course will review some of the fundamental math skills you learned in middle school, and then get you up to speed on the basic concepts of algebra. Each module takes you step-by-step into the world of integers, equations, graphs and data analysis. You'll work at your own pace until the numbers come out right.

This course connects algebra to the real world. It also demystifies algebra, making it easier to understand and master. The goal is to create a foundation in math that will stay with you throughout high school.

**ALGEBRA 1B (1 credit)****Grades: 9-12**

It's time to finish what you started. In Algebra 1a, you learned that algebra is an efficient way to solve some real-world problems. You also acquired the power to do a lot of the important basic work. Now, after a quick review, you'll be ready to tackle Algebra 1b.

This course works like the last one. You'll get step-by-step instructions with all the numbers, equations, and graphs on the screen right in front of you. You'll also have plenty of time to practice and plenty of opportunities to ask your teacher for help. Along with learning new algebraic strategies and properties, you'll learn data analysis concepts and techniques. You'll also see how algebra connects with other high school subjects like geometry, statistics and biology.

Together, Algebra 1a and 1b will meet your Algebra 1 requirement. These courses will also give you a powerful tool for understanding how the world works, and how to make it work for you.

**AP CALCULUS AB (1 credit)****Grades: 12**

Students in this course will walk in the footsteps of Newton and Leibnitz.

An interactive course framework combines with the exciting on-line course delivery to make calculus an adventure. The course includes a study of limits, continuity, differentiation, and integration of algebraic, trigonometric, and transcendental functions, and the applications of derivatives and integrals.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**Required Materials:** Graphing calculator

**Pre-requisites:** Algebra 1, Geometry, Algebra II, Pre-Calculus or Trigonometry/Analytical Geometry

**AP CALCULUS BC (1 credit)****Grades: 12**

Calculus BC can be offered by schools where students are able to complete all the Pre-requisites before taking the course. Calculus BC is a full-year course in the calculus of functions of a single variable. It includes all topics taught in Calculus AB plus additional topics, but both courses are intended to be challenging and demanding; they require a similar depth of understanding of common topics. The Calculus AB subscore is reported based on performance on the portion of the Calculus BC Exam devoted to Calculus AB topics. Pre-requisites before studying calculus, all students should complete four years of secondary mathematics designed for college-bound students: courses in which they study algebra, geometry, trigonometry, analytic geometry, and elementary functions. These functions include linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric and piecewise-defined functions. In particular, before studying calculus, students must be familiar with the properties of functions, the algebra of functions, and the graphs of functions. Students must also understand the language of functions (domain and range, odd and even, periodic, symmetry, zeros, intercepts, and so on) and know the values of the trigonometric functions at the numbers  $0$ ,  $\frac{\pi}{6}$ ,  $\frac{\pi}{4}$ ,  $\frac{\pi}{3}$ ,  $\frac{\pi}{2}$ , and their multiples.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**Required Materials:** Graphing calculator

**Pre-Requisites:** Algebra I, Geometry, Algebra II, Pre-Calculus or Trigonometry/Analytical Geometry.

**AP STATISTICS (1 credit)****Grade: 12**

Advanced Placement Statistics is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics introduced include the exploratory analysis of data and numerical techniques to study patterns, methods of valid data collection, probability as the tool for anticipating what distributions of data should look like, and confirming models through statistical inference.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**Pre-requisites:** Algebra I & II

**CONSUMER MATH (1 credit)****Grade: 9-12**

This comprehensive review and study of arithmetic skills apply to both personal and vocational business opportunities. Topics include whole numbers, fractions, percentages, basic statistics, and graphs. Practical applications in finance, taxes, budgeting, banking and home ownership are provided.

**GEOMETRY (1 credit)****Grades: 9-12**

One day in 2580 B.C.E., a very serious architect stood in a dusty desert with a set of plans. His plans called for creating a structure 480 feet tall, with a square base and triangular sides, using stone blocks weighing two tons each. The Pharaoh wanted the job done right. The better this architect understood geometry, the better his chances were for staying alive.

Geometry is everywhere, not just in pyramids. Engineers use geometry to build highways and bridges. Artists use geometry to create perspective in their paintings, and mapmakers help travelers find things using the points located on a geometric grid. Throughout this course, students travel a mathematical highway illuminated by spatial relationships, reasoning, connections, and problem solving.

## PHYSICAL EDUCATION

**PHYSICAL EDUCATION (.5 credit)****Grades: 9-12**

Physical Education encompasses learning how to live and maintain a healthy lifestyle. This course covers physical fitness, why it is important, how to have a healthy attitude, and how to stick with a healthy game plan. In this ever-changing world, physical fitness becomes more important and more difficult to find the time for. This course allows the student to discover how to make physical fitness not only a part of their daily life, but also see that it is attainable. PE for a Healthy Lifestyle will examine the emotional, physical, and scientific factors that influence physical performance.

## SCIENCE

**ASTRONOMY (.5 credit)****Grades: 9-12**

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe that surrounds us. This course will introduce students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students will examine the life cycle of stars, the properties of planets, and the exploration of space.

**EARTH-SPACE SCIENCE (1 credit)****Grades: 9-12**

Be captivated by the wonders and beauty of the third planet from our Sun, Earth. Be amazed by what awaits your discovery within our solar system and beyond. It is your turn to explore the universe. Earth/Space Science is a laboratory course focusing on the study of space, geologic structures and forces, the waters on our planet, and the atmospheric forces that shape our world. Through experimentation and investigation, students will explore the earth cycles including the geosphere, hydrosphere, cryosphere, atmosphere, and

the carbon cycle. Students will learn about scientific inquiry, geologic time, space exploration, the solar system, and the universe. Students will use web 2.0 tools, interactive experiences, higher-order thinking, collaborative projects, and real-world application through labs and a variety of assessments. Upon completion of the course, students will have a clear understanding of the dynamic forces at work in the world around them, becoming better caretakers of our planet, Earth.

**Student Provided Lab Materials:** *one sheet of plain white paper, several sheets of old newspaper, or wax paper if available, one water-based marker (Note: do not use permanent marker), one spray bottle containing water (place on "mist" setting), digital camera, if available, chocolate chip cookie, toothpicks (flat and round), paperclips, graph paper, stopwatch, timer, or clock with second hand, ruler or meter stick, 4.6 meters of adding-machine tape, or strips of paper taped together to form a continuous line (4.6 meters long), colored pencils, crayons, or markers, digital camera to take and submit a photograph of your time scale (optional), 1 Styrofoam ball, Alternately, you may obtain a similar sphere, preferably white, such as a table-tennis ball, and attach this sphere to a short piece of string, 1 dowel rod, pencil, or other long holder for the Styrofoam ball. Optional: empty aluminum soda can, shallow pan (baking, or pie pan, or storage bowl will do), water, stove top burner, two oven mitts or hot pads, plastic bucket or bowl, toothbrush, measuring cup, 1 un-inflated balloon (when inflated, the balloon should have a round shape and be approximately the size of a soccer ball), About 30 cm (12 inches) of string or yarn, pan, raw egg, cracking device such as a teaspoon, paper towels or newspaper.*

### FORENSICS: Secrets of the Dead (.5 credit)

**Grades:** 9-12

Fingerprints. Blood spatter. DNA analysis. The world of law enforcement is increasingly making use of the techniques and knowledge from the sciences to better understand the crimes that are committed and to catch those individuals responsible for the crimes. Forensic science applies scientific knowledge to the criminal justice system. This course focuses on some of the techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various elements of the crime scene are analyzed and processed.

### LIVING ENVIRONMENT (1 credit)

**Grades:** 9-12

The Biology course guides students through the study of living and non-living systems and how they interact with one another. Students explore the world they live in by posing questions and seeking answers through scientific inquiry. Discovery takes place through observation and data collection. The students will be introduced to the structure, function, diversity, and evolution of living matter. This is a course with real relevance. It encourages curiosity and provides opportunity for students to work on hands on lab activities and develop relationships through collaboratively learning. Engaging in the study of biological science broadens the picture of the world around us.

**Lab Requirement:** *All labs must be completed in the student's home district under the supervision of the certified home district teacher. The home district will record all labs.*

**MARINE SCIENCE (1 credit)****Grades: 9-12**

As our amazing planet continues to change over time, it becomes increasingly more apparent how human activity has made environmental impacts. In the marine science course, you will delve deep into Earth's bodies of water and study geologic structures and how they impact the oceans. You will investigate characteristics of various populations, patterns of distribution of life in our aquatic systems and ongoing changes occurring every day in our precious ecosystems. You will be amazed and enlightened at just how much our oceans and lakes affect climate, weather, and seasonal variations. You will have the opportunity to explore the relationships among living organisms and see how they are affected by our oceans currents, tides, and waves. Hold on, it is one amazing journey.

**Student Provided Lab Materials:** camera, access to a body of water, two baby food jars (minimum), food coloring (four colors), index cards, hot/cold water, salt, spoon, shrimp, lobster, or crab (living or dead), pan or bucket to put animal in, ruler, four zip lock bags (large enough for hand), solid shortening (Crisco or other brand), clock with second hand or stopwatch, duct tape (optional), one oyster with shell, one squid (whole), a pan to put the specimen in, a knife, preferably with a smooth, sharp blade, flathead screwdriver (to open the valves), round toothpick (to use as a probe). Please note that dissection of living animals is optional. Students have a "drawing" option for these particular assignments and extra credit activities.

**PALEONTOLOGY (.5 credit)****Grades: 9-12**

From Godzilla to Jurassic Park, dinosaurs continue to captivate us. In this course, students will learn about the fascinating creatures both large and small that roamed the earth before modern man. Watch interesting videos from experts at The Royal Tyrrell Museum, a leading paleontology research facility, and discover how the field of paleontology continues to provide amazing insight into early life on earth.

**RENEWABLE ENERGY (.5 credit)****Grades: 9-12**

The earth's population is growing rapidly, and we need to find new, innovative ways to ensure that we are able to provide for our global energy needs. Students will look at the reasons why sustainability is important, take a balanced and evidence-based look at climate change, and learn new ways that we can harness renewable resources.

**SPACE EXPLORATION (.5 credit)****Grades: 9-12**

In 1961, Yuri Gagarin became the first human to go to space. In 1969, Neil Armstrong became the first human to step on the moon. This comprehensive course will examine the history and future of space travel. Find out how we have put people in space in the past, and what it will take for us to reach new frontiers, including Mars and beyond.

## SOCIAL STUDIES

### AP HUMAN GEOGRAPHY (1 credit)

#### Grade: 11-12

Explore the patterns and processes that impact the way humans understand, use, and change Earth's surface. Geographic models, methods, and tools help you examine the effect that human social organization and interconnections have on our world.

*AP Exam: Exam fees are to be paid by the student or school district. The individual school district orders the exam on behalf of the student and administers it.*

### AP MACROECONOMICS (1 credit)

#### Grade: 11-12

This course places particular emphasis on the study of national income and price-level determination, and also familiarizes students with economic performance measures, the financial sector, stabilization policies, economic growth and international economics. Solid math and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills.

*AP Exam: Exam fees are to be paid by the student or school district. The individual school district orders the exam on behalf of the student and administers it.*

### AP MICROECONOMICS (1 credit)

#### Grade: 11-12

This course is designed to give students a thorough understanding of the principles of economics that apply to the function of individual decision-makers, both consumers and producers, within larger economic systems. It places primary emphasis on the nature and function of product markets. It also examines factor markets and the role of government in promoting greater efficiency and equity in the economy. Solid math and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills.

*AP Exam: Exam fees are to be paid by the student or school district. The individual school district orders the exam on behalf of the student and administers it.*



**AP PSYCHOLOGY (.1 credit)****Grade: 11-12**

AP Psychology is a college-level course providing students with an overview of the development of human behaviors and thoughts. Along with preparation for the AP Psychology exam, the goals of this course are to immerse students in modern psychological investigation techniques, to accentuate the ethics and morality of human and animal research, and to emphasize scientific critical thinking skills in application to the social sciences. Psychology is a diverse social and biological science with multiple perspectives and interpretations. The primary emphasis of this course is to help students develop an understanding of concepts rather than memorize terms and technical details; the ultimate goal is to prepare students to successfully take the AP Psychology examination offered in May.

*AP Exam: Exam fees are to be paid by the student or school district. The individual school district orders the exam on behalf of the student and administers it.*

**AP US GOVERNMENT & POLITICS (1 credit)****Grade: 12**

This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics.

*AP Exam: Exam fees are to be paid by the student or school district. The individual school district orders the exam on behalf of the student and administers it.*

**AP US HISTORY (1 credit)****Grade: 11-12**

The AP U.S. History course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes, such as identity, peopling, and America in the world. In line with college and university U.S. history survey courses' increased focus on early and recent American history and decreased emphasis on other areas, the AP U.S. History course expands on the history of the Americas from 1491 to 1607 and from 1980 to the present. It also allows teachers flexibility across nine different periods of U.S. history to teach topics of their choice in depth.

*AP Exam: Exam fees are to be paid by the student or school district. The individual school district orders the exam on behalf of the student and administers it.*

**AP WORLD HISTORY (1 credit)****Grades: 10-12**

Structured around the investigation of five course themes and 19 key concepts in six different chronological periods, from approximately 8000 B.C.E. to the present. Provides a clear framework of six chronological periods viewed through the lens of related key concepts and course themes, accompanied by a set of skills that clearly define what it means to think historically.

*AP Exam: Exam fees are to be paid by the student or school district. The individual school district orders the exam on behalf of the student and administers it.*

**AFRICAN AMERICAN HISTORY (1 credit)****Grades: 9-12**

Over the course of U.S. history, how have African Americans helped shaped American culture? This African American History course answers that question by tracing the accomplishments and obstacles of African Americans beginning with the slave trade on up to the modern Civil Rights movement. What was it like during slavery, or after emancipation, or during the years of discrimination under Jim Crow? Who were some of the main figures who have shaped African American history? In this course, you'll learn about the political, economic, social, religious, and cultural factors that have influenced African American life, come face to face with individuals who changed the course of history, and explore how the African American story still influences current events today.

**ANTHROPOLOGY I (.5 credit)****Grades: 9-12**

The aim of anthropology is to use a broad approach to gain an understanding of our past, present and future, and address the problems humans face in biological, social and cultural life. This course will explore the evolution, similarity and diversity of humankind through time.

**ARCHAEOLOGY (.5 credit)****Grades: 9-12**

The field of archeology helps us to better understand the events and societies of the past that have helped to shape our modern world. This course focuses on this technique, methods, and theories that guide the study of the past. You will learn how archaeological research is conducted and interpreted, as well as how artifacts are located and preserved.

**CIVICS / GOVERNMENT (.5 credit)****Grades: 12**

Responsible citizenship, including civil and political participation is essential to maintain a representative government that truly represents the people of the United States. In this course, students learn about the structure of government and how it shares power at the local, state and federal levels. This course also explores founding principles that inspired the Constitution and Bill of Rights, preserving the freedoms that students experience daily. Students will examine the processes of each branch of government, the election process, and how citizens can impact public policy. The media, interest groups and influential citizens provide examples of how the government can be effected by informed and active participants. Students will examine the U.S. Court system, and become a part of the process by participating in the judicial decision making process. They will also discover ways the United States interacts with countries around the world, through domestic policy, foreign policy and human rights policy. Completion of this course will allow you to act as an informed citizen who is ready to participate in the American democracy!

**ECONOMICS (.5 credit)****Grades: 12**

Economic decisions affect us every day of our lives. Understanding economics means thinking about how scarcity, or limited resources, requires us to make choices and evaluate one option against others. In this course, you will recognize examples of economics in your daily life. You will see how the economic choices of larger groups, like businesses and governments, affect you and others. As you progress through the course, you will recognize that the costs and benefits of choices connect individuals and groups around the world. The purpose of this course is to help you become a smart consumer who understands the flow of an economy between individuals, businesses, governments, and the rest of the world.

**HISTORY OF THE HOLOCAUST (.5 credit)****Grades: 9-12**

Holocaust education requires a comprehensive study of not only times, dates, and places, but also the motivation and ideology that allowed these events. In this course, students will study the history of anti-Semitism; the rise of the Nazi party; and the Holocaust, from its beginnings through liberation and the aftermath of the tragedy. The study of the Holocaust is a multi-disciplinary one, integrating world history, geography, American history, and civics. Through this in-depth, semester-long study of the Holocaust, high school students will gain an understanding of the ramifications of prejudice and indifference, the potential for government-supported terror, and they will get glimpses of kindness and humanity in the worst of times.

**HUMAN GEOGRAPHY (.5 credit)****Grades: 9-12**

You will explore the diverse ways in which people affect the world around them and how they are affected by their surroundings. You will discover how ideas spread and cultures form, and learn how beliefs and architecture are part of a larger culture complex.

**GLOBAL 9 (1 credit)****Grade: 9**

World History begins with a focus on the skills needed to read, understand, and analyze history, also demonstrating how historians and social scientists arrive at their conclusions about human history. Semester A covers the history of civilization from hunter-gatherer societies through the characteristics of the earliest civilizations to the Enlightenment period in Western Europe.

**GLOBAL 10 (1 credit)****Grade: 10**

World History emphasizes the effects of the Industrial Revolution and changing attitudes about science and religion as well as the impact of European colonization. Students are encouraged to make connections between World War I and II and events related to the Cold War and between 19th-century imperialism and modern independence movements.

**LAW and ORDER (.5 credit)****Grades: 9-12**

Imagine if there were no laws and people could do anything they wanted.

It's safe to say the world would be a pretty chaotic place! Every society needs some form of regulation to ensure peace in our daily lives and in the broader areas of business, family disputes, traffic violations, and the protection of children. Laws are essential to preserving our way of life and must be established and upheld in everyone's best interest. In Law and Order: Introduction to Legal Studies, you'll delve deeper into the importance of laws and consider how their application affects us as individuals and communities. Through understanding the court system and how laws are actually enacted, you will learn to appreciate the larger legal process and how it safeguards us all.

**MEDIEVAL HISTORY (.5 credit)****Grades: 10-12**

Medieval History covers the history and civilization of Europe and the Mediterranean area from ca. 500 to ca. 1500, a period spanning from the collapse of the Roman Empire through the dawn of the Italian Renaissance. Topics covered in this course include the transition from the Roman to the early medieval world; the formation of Byzantine and Islamic societies; the emergence of Barbarian kingdoms; Viking invasions; feudalism; European expansion; late-medieval government; the disasters of the late Middle Ages; religious thought and practice; women's roles in medieval society; the highlights of medieval and Renaissance culture; and the legacy of the Middle Ages.

*Pre-requisite: Students should either have completed or be enrolled in Global Studies.*

**MYTHOLOGY & FOLKLORE (.5 credit)****Grades: 9-12**

Beginning with an overview of mythology and different kinds of folklore, you will journey with ancient heroes as they slay dragons and outwit gods, follow fearless warrior women into battle, and watch as clever monsters outwit those stronger than themselves. You will explore the universality and social significance of myths and folklore, and see how these are still used to shape society today.

**NATIONAL SECURITY (.5 credit)****Grades: 9-12**

Do you know what it takes to keep an entire nation safe? It not only requires knowledge of how to handle disasters, but it also demands a cool head and tremendous leadership abilities. In National Security, you will have the opportunity to learn about the critical elements of the job, such as evaluating satellite information, analyzing training procedures, assessing military engagement, preparing intelligence reports, coordinating information with other security agencies, and applying appropriate actions to various threats. Put yourself in the position of the country's decisive leaders and develop your own knowledge base and skill set necessary to meet the requirements of our nation's most demanding career.

**PERSONAL PSYCHOLOGY I (.5 credit each)****Grades: 9-12**

Self-knowledge is the key to self-improvement. Sample topics include the study of infancy, childhood, adolescence, perception and states of consciousness. Amazing online psychology experiments dealing with our own personal behavior are featured within this course.

**PERSONAL PSYCHOLOGY II (.5 credit each)****Grades: 9-12**

Enrich the quality of your life by learning to understand the actions of others! Topics include the study of memory, intelligence, emotion, health, stress and personality. This course features exciting online psychology experiments involving the world around us.

**PHILOSOPHY: The Big Picture (.5 credit)****Grades: 9-12**

Go on an exciting adventure covering over 2,500 years of history! Along the way, you'll run into some very strange characters, like the dirty barefoot man who hung out on street corners pestering everyone with questions, or that eccentric fellow who climbed inside a stove to think about whether he existed. Despite their odd behavior, these and other philosophers of the Western world are among the world's most brilliant and influential thinkers and originated the fundamental ideas of Western civilization. Introduction to Philosophy: The Big Picture asks some of the same questions these great thinkers pondered, so by the time you've "closed the book" on this course, you will better understand yourself and the world around you – from atoms to outer space and everything in between.

**PRINCIPLES OF PUBLIC SERVICE: To Serve and Protect (.5 credit)****Grades: 9-12**

Ambulances scream along, heading toward those in need. But who makes sure someone is there to answer the 9-1-1 call? When you take a pill, who has determined that drug is safe for the public? All of these duties are imperative to our comfort and success as a society. Public service is a field that focuses on building a safe and healthy world, and in Principles of Public Service: To Serve and Protect you will be introduced to its many different career choices. The protection of society is not only one of our greatest challenges, but it also provides ways for people to work together to ensure safety and provide indispensable services. If you have ever contemplated being one of these real-life heroes, now is the time to learn more!

**PSYCHOLOGY (.5 credit)****Grades: 10-12**

What do you feel? How do you behave? What are your thoughts? Feelings, actions and thoughts are closely related and in this Psychology course, you will see how! Do you wonder things like why you learn the way you do, how you forget, and what makes you remember? Are you curious about mental disorders and what traditional and non-traditional therapy is all about? If experiments and role plays and dream interpretations sound interesting, then this is the class for you! In this course you will learn more about yourself and others including how to break a habit and how to cope with stress. The purpose of this course is to introduce you to the psychological facts, principles, and phenomena associated with each of the subfields within psychology.

**SOCIOLOGY I: The Study of Human Relationships (.5 credit)****Grades: 9-12**

You will examine social problems in our increasingly connected world, and learn how human relationships can strongly influence and impact our lives. Exciting online video journeys to an array of areas in the sociological world are an important component of this relevant and engaging courses.

**SOCIOLOGY II: Your Social Life (.5 credit)****Grades: 9-12**

Sociology is the study of people, social life and society. By developing a “sociological imagination” you will be able to examine how society itself shapes human action and beliefs, and how in turn these factors re-shape society itself! Fascinating online videos journeys will not only inform you, but motivate you to still seek more knowledge on your own.

**UNITED STATES HISTORY (1 credit)****Grades: 11-12**

The first semester of this course covers the discovery, development, and growth of the United States. Major topics include; American Indian cultures, European colonization of the Americas, and the causes and effects of the American Revolution. Geographical, economic, and political factors are explored as the key factors in the growth of the United States of America. American History I is a survey of the struggle to build the United States of America from the colonial period to the beginning of the twentieth century. By means of reading, analyzing, and applying historical data, students come to appreciate the forces that shaped our history and character as an American people. Not only are the topics of American history discussed, but students also explore research methods and determine accurate sources of data from the past. Knowing the facts and dates of history are just the beginning: each student must understand how history affects him or her.

The second semester of this course begins with a study of American life before the 1929 Stock Market crash and how the Roaring Twenties influenced society in the late 19th through early 20th centuries. Students will examine the causes and consequences of the Great Depression and move on into a detailed study of World War II with an emphasis on America's role in the conflict. The course continues with an analysis of the Cold War struggle and America's rise as a superpower. The Civil Rights and Women's rights movements, pollution and the environment, and American domestic and foreign policy will be examined. The course wraps up with a summary of current events and issues, including a study of the Middle East. This course begins with an assessment of life in United States pre-World War I and ends with the conflicts of the new millennium. Students look at the nation in terms of economic, social, and political trends. The experiences of the last century are summarized, including a look into the civil rights issues that have embroiled the nation in conflict. The development of the United States of America into a superpower is explored within a global context.

**WORLD RELIGION (.5 credit)****Grades: 9-12**

This course focuses on the major religions that have played a role in human history, including Buddhism, Christianity, Confucianism, Hinduism Islam, Judaism, Shintoism, and Taoism. You will trace the major developments in these religions and explore their relationships with social institutions and culture.

## AP COURSES

### AP ART HISTORY (1 credit)

**Grades: 12**

The AP Art History course is a yearlong survey of art and architecture across centuries, cultures, and styles. In this course students will cover art and architecture created from the Ancient World to the 20th Century and beyond.

They will develop an appreciation and understanding of art and architecture using these seven key concepts: Identification and Attribution, Visual Analysis, Contextual Analysis, Finding Meaning, Interdisciplinary Awareness, Reading Skills, and Writing Skills. By using these concepts, students will be able to identify works of art, artists, and styles.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

### AP CALCULUS AB (1 credit)

**Grades: 12**

Students in this course will walk in the footsteps of Newton and Leibnitz.

An interactive course framework combines with the exciting on-line course delivery to make calculus an adventure. The course includes a study of limits, continuity, differentiation, and integration of algebraic, trigonometric, and transcendental functions, and the applications of derivatives and integrals.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**Required Materials:** Graphing calculator

**Pre-requisites:** Algebra 1, Geometry, Algebra II, Pre-Calculus or Trigonometry/Analytical Geometry

### AP CALCULUS BC (1 credit)

**Grades: 12**

Calculus BC can be offered by schools where students are able to complete all the Pre-requisites before taking the course. Calculus BC is a full-year course in the calculus of functions of a single variable. It includes all topics taught in Calculus AB plus additional topics, but both courses are intended to be challenging and demanding; they require a similar depth of understanding of common topics. The Calculus AB subscore is reported based on performance on the portion of the Calculus BC Exam devoted to Calculus AB topics. Pre-requisites before studying calculus, all students should complete four years of secondary mathematics designed for college-bound students: courses in which they study algebra, geometry, trigonometry, analytic geometry, and elementary functions. These functions include linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric and piecewise-defined functions. In particular, before studying calculus, students must be familiar with the properties of functions, the algebra of functions, and the graphs of functions. Students must also understand the language of functions (domain and range, odd and even, periodic, symmetry, zeros, intercepts, and so on) and know the values of the trigonometric functions at the numbers  $0, \frac{\pi}{6}, \frac{\pi}{4}, \frac{\pi}{3}, \frac{\pi}{2}$ , and their multiples.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**Required Materials:** Graphing calculator

**Pre-Requisites:** Algebra I, Geometry, Algebra II, Pre-Calculus or Trigonometry/Analytical Geometry.

### AP COMPUTER SCIENCE A (1 credit)

**Grades:** 11-12

The AP® Computer Science A course is equivalent to the first semester of a college level computer science course. The course involves developing the skills to write programs or part of programs to correctly solve specific problems. AP® Computer Science A also emphasizes the design issues that make programs understandable, adaptable, and when appropriate, reusable. At the same time, the development of useful computer programs and classes is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. In addition an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course.

**Technology Requirements:** Students must have access to a computer system that represents relatively recent technology (PIII). Schools need to have Java and BluJ software already installed on a designated machine(s) before the course starts and enough memory in their lab machines (128 MB) so that students will be able to compile and run Java and BluJ programs efficiently.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**Pre-requisites:** Algebra I is required. Algebra II is highly recommended. **Prior coding experience is highly recommended. An online preparation course is highly recommended and that is Introduction to Computer Science.**

### AP ENGLISH LANGUAGE AND COMPOSITION (1 credit)

**Grades:** 11-12

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. The college composition course for which the AP English Language and Composition course substitutes is one of the most varied in the curriculum.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**Pre-Requisites:** Teacher recommendation, English I, II (honors), with a B+ average



**AP ENGLISH LITERATURE AND COMPOSITION (1 credit)****Grade: 12**

Engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**Textbook Requirement:** Students obtain reading material through school and local library

**Pre-requisite:** Junior English

**AP HUMAN GEOGRAPHY (1 credit)****Grades: 11-12**

Explore the patterns and processes that impact the way humans understand, use, and change Earth's surface. Geographic models, methods, and tools help you examine the effect that human social organization and interconnections have on our world.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**AP MACROECONOMICS (1 credit)****Grades: 11-12**

This course places particular emphasis on the study of national income and price-level determination, and also familiarizes students with economic performance measures, the financial sector, stabilization policies, economic growth and international economics. Solid math and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**AP MICROECONOMICS (1 credit)****Grades: 11-12**

This course is designed to give students a thorough understanding of the principles of economics that apply to the function of individual decision-makers, both consumers and producers, within larger economic systems. It places primary emphasis on the nature and function of product markets. It also examines factor markets and the role of government in promoting greater efficiency and equity in the economy. Solid math and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**AP MUSIC THEORY (1 credit)****Grades: 11-12**

The Music Theory course is the study of melody, harmony, texture, rhythm, form, musical analysis, elementary composition and, to some extent, history and style. Skills in musical dictation and listening, sight-singing, and basic keyboard harmony are an important part of the AP theory course.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**Prerequisite:** Students should have a minimum of three years of past musical study, (piano, instrumental, vocal or composition) and an ability to identify note names, perform basic rhythmic figures and identify keys.

**AP PSYCHOLOGY (.1 credit)****Grades: 11-12**

AP Psychology is a college-level course providing students with an overview of the development of human behaviors and thoughts. Along with preparation for the AP Psychology exam, the goals of this course are to immerse students in modern psychological investigation techniques, to accentuate the ethics and morality of human and animal research, and to emphasize scientific critical thinking skills in application to the social sciences. Psychology is a diverse social and biological science with multiple perspectives and interpretations. The primary emphasis of this course is to help students develop an understanding of concepts rather than memorize terms and technical details; the ultimate goal is to prepare students to successfully take the AP Psychology examination offered in May.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**AP STATISTICS (1 credit)****Grade: 12**

Advanced Placement Statistics is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics introduced include the exploratory analysis of data and numerical techniques to study patterns, methods of valid data collection, probability as the tool for anticipating what distributions of data should look like, and confirming models through statistical inference.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**Pre-requisites:** Algebra I & II

**AP US GOVERNMENT & POLITICS (1 credit)****Grade: 12**

This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**AP US HISTORY (1 credit)****Grades: 11-12**

The AP U.S. History course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes, such as identity, peopling, and America in the world. In line with college and university U.S. history survey courses' increased focus on early and recent American history and decreased emphasis on other areas, the AP U.S. History course expands on the history of the Americas from 1491 to 1607 and from 1980 to the present. It also allows teachers flexibility across nine different periods of U.S. history to teach topics of their choice in depth.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

**AP WORLD HISTORY (1 credit)****Grades: 11-12**

Structured around the investigation of five course themes and 19 key concepts in six different chronological periods, from approximately 8000 B.C.E. to the present. Provides a clear framework of six chronological periods viewed through the lens of related key concepts and course themes, accompanied by a set of skills that clearly define what it means to think historically.

**AP Exam:** Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.