



**ATHENIAN**  
eAcademy

2019-2020

High School Course Offerings Catalog

## Classroom Supply List High School 2019-2020

The following items are **community property**: pencils, markers, paper, glue, erasers, tissues, wipes, or supplies specifically designated for art (including colored pencils, markers, construction paper). Please label all other items with your scholar's name.

- 2 dozen #2 pencils (preferably Ticonderoga)
- 3 boxes of facial tissues
- 2 containers of Clorox wipes
- 10 ballpoint pens
- 3 glue sticks or bottles of Elmer's Glue
- 1 pack of charcoal pencils
- 1 pack large pink erasers (3 count)
- 1 ruler
- 1 compass
- 1 pack Crayola markers (10 count)
- 1 pack Crayola colored pencils (12 count)
- 1 pkg assorted colored construction paper (optional)
- 1 lined spiral notebook
- 1" binder with lined paper for math classes
- 2 3-prong plastic pocket folders for writing (**marked with scholar's name**)
- Headset with microphone or earbuds with microphone

Scholars with LAST Name starting with A-M

Plastic Utensils (fork/spoons)

Scholars with LAST Name starting with N-Z

Paper cups/plates

<b>Course</b>	<b>Minimum Requirement</b>
Language Arts	<b>4.0 Credits</b> Lang. Arts 9-1.0 Lang. Arts 10-1.0 Lang. Arts 11-1.0 Lang. Arts 12-1.0 ( Choose from LA offerings)
Math	<b>3.0 Credits</b> Secondary Math I-1 Secondary Math II-1.0. Secondary Math III or Addt'l Math-1.0*
Science	<b>3.0 Credits</b> 2.0 credits from 2 of the 4 categories; Biology, Chemistry, Earth Systems or Physics 1.0 credit (Choose from Foundation, Applied or Advanced Science core list)
Social Studies	<b>3.0 Credits</b> Geography-.5 (Recommended for 9th grade) World Civilization-.5 (Recommended for 10th grade) US Government-.5 (Recommended for 10th grade) U.S. History-1.0 (Recommended for 11th grade) Philosophy-.5 (Recommended for 11th or 12th grade)
Physical Education/ Health	<b>2.0 Credits</b> Health-.5 (Recommended for 10th grade) P.E. Participation Skills-.5 (Recommended for 9th grade) P.E. Fitness for Life-.5 (Recommended for 10th grade) P.E. Individual Lifetime Activities(11th or 12th grade)
Fine Arts	<b>1.5 credits</b> (Choose from a variety of classes)
Career and Technical Education (CTE)	<b>1.0 Credits</b> (Choose from a variety of classes)
Digital Studies	<b>.5 Credits</b>
General Financial Literacy	<b>.5 Credits</b> (11th or 12th grade)
Foreign Language	<b>1.0 Credits</b> (2.0 credits recommended for college enrollment)
Essential Career Skills	<b>.5 Credits</b>
4.0 additional elective credits	<b>4.0 Credits</b> (Choose from a variety of classes)

## AeA Suggested Four Year Plan

The following is a suggested plan for graduation. Remember students can work at their own pace, as long as they complete 6 full credits per year. Completing 6 credits per year will keep them on schedule for graduation. Math and Language Arts courses must be taken in order. Students will have Math and Language Arts on their schedules until all requirements have been completed. Science classes can be taken in any order, however Math II must be completed before a student can enroll in Physics or Chemistry. Only one PE class can be taken at a time.

<p style="text-align: center;"><b>9th Grade</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Math I 1.0</li> <li><input type="checkbox"/> English 9 1.0</li> <li><input type="checkbox"/> Science 1.0 (Earth System, Biology or two science electives)</li> <li><input type="checkbox"/> Geography.5</li> <li><input type="checkbox"/> Digital Studies.5</li> <li><input type="checkbox"/> Fine Art Choice .5</li> <li><input type="checkbox"/> Participation Skills .5</li> <li><input type="checkbox"/> Foreign Language 1.0</li> <li><input type="checkbox"/> <b>Total=6.0 Credits</b></li> </ul>	<p style="text-align: center;"><b>10th Grade</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Math II 1.0</li> <li><input type="checkbox"/> English 10 1.0</li> <li><input type="checkbox"/> Science 1.0 (Earth System, Biology or two science electives)</li> <li><input type="checkbox"/> World Civilizations .5</li> <li><input type="checkbox"/> U.S. Government .5</li> <li><input type="checkbox"/> Fine Art Choice .5</li> <li><input type="checkbox"/> Fitness for Life .5</li> <li><input type="checkbox"/> Health .5</li> <li><input type="checkbox"/> Electives .5</li> <li><input type="checkbox"/> <b>Total=6.0 Credits</b></li> </ul>
<p style="text-align: center;"><b>11th Grade</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Math III (Or Math Electives) 1.0</li> <li><input type="checkbox"/> English 11 1.0</li> <li><input type="checkbox"/> Science Foundation 1.0 (Earth System, Biology, Chemistry, Physics or two science electives)</li> <li><input type="checkbox"/> US History 1.0</li> <li><input type="checkbox"/> CTE Choice .5</li> <li><input type="checkbox"/> General Financial Literacy .5</li> <li><input type="checkbox"/> Electives 1.0 (These could include CTE classes or college prep classes)</li> <li><input type="checkbox"/> <b>Total=6.0 Credits</b></li> </ul>	<p style="text-align: center;"><b>12th Grade</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> English 12 (Or LA Electives) 1.0</li> <li><input type="checkbox"/> Philosophy .5</li> <li><input type="checkbox"/> Fine Art Choice .5</li> <li><input type="checkbox"/> Essential Career Skills .5</li> <li><input type="checkbox"/> Individual Lifetime Activities .5</li> <li><input type="checkbox"/> CTE Choice .5</li> <li><input type="checkbox"/> Electives 2.5 Credits (These could include additional math, science, CTE or College Prep Courses.)</li> <li><input type="checkbox"/> <b>Total=6.0 Credits</b></li> </ul>

## **Fine Arts 1.5 Credits Required**

### **Art History 1**

In this course students are introduced to basic art principles of color, space, light, texture. Different periods of art are explored from prehistoric periods, through ancient periods such as Egypt, Sumeria, Mesopotamia. Later periods including an in depth study of art from Greece, Rome and other mediterranean cultures. Periods of European art including the renaissance will be studied followed by modern art forms.

9,10,11,12      2 semesters      1.0 Fine Art Credit or Elective Credit

### **Art History 2**

In this class students will be introduced to the Visual Arts. You will trace the history of art and describe various art forms. You will identify the elements of art and examine the principles of design. You will analyze the parameters in evaluating and critiquing art. You will examine copyright laws and discuss the ethical use of art.

9,10,11,12      2 semesters      1.0 Fine Art Credit or Elective Credit

### **Digital Photography**

This course is an introduction to digital photography and teaches students effective camera and editing software use, artistic design, processing and careers, with a brief history of photography. Students will assist in developing a school yearbook. A digital or phone camera with a zoom function will be needed for this class.

9,10,11,12      1 Semester      .5 Fine Art Credit or Elective Credit

### **Music Appreciation 1**

This one-semester elective course is intended as a practical, hands-on guide to help students understand, discuss, and appreciate music more knowledgeably. Students will explore the history and evolution of music. Students will also learn about the concepts and techniques in music and music listening. Students will also learn about musical instruments, famous composers and artists, and key musical genres.

9,10,11,12      1 Semester      .5 Fine Art Credit or Elective Credit

## **Career and Technical Education 1.0 Credits Required**

### **Child Development 1**

Child Development, Part 1 is an introductory course in child development that begins with theories of child development, then proceeds to trace development from pregnancy to infancy. Children do not come with a manual, but this course will help anyone who plans to be a parent or care for a child. This course also includes a discussion of heredity and parenting skills. This is the first course in a two-part Child Development series

9,10,11,12      1 Semester      .5 CTE Credit or Elective Credit

### **Culinary Arts and Nutrition**

This course covers the basics of nutrition; and health, safety, and sanitation. It covers basic science principles used in cooking and various cooking methods. It also explores the culinary skills required to make a variety of items, ranging from stocks and soups to seafood and poultry to various breads and desserts.

9,10,11,12      1 Semester      .5 CTE Credit or Elective Credit

### **Criminal Justice**

This course covers the history and development of criminal law in the United States, court procedures, the role of law enforcement agencies and private security in public safety, and the role of firefighters and emergency responders. It also covers the ethical and legal responsibilities and working conditions in law enforcement and security.

9,10,11,12      1 Semester      .5 CTE Credit or Elective Credit

### **Digital Business Applications**

This one-semester course is intended as a practical, hands-on guide to help you understand the basic computer skills required during your college education and when pursuing a career. This course will cover the needs for technology in business organizations and how businesses use hardware, software, Internet, and emerging technologies. This course also covers productivity applications such as word processing software and spreadsheet software.

9,10,11,12      1 Semester      .5 CTE Credit, Digital Studies or Elective Credit

### **Early Childhood Education**

In this course, students will learn how to create fun and educational environments for children, how to keep the environment safe for children, and how to encourage the health and well-being of infants, toddlers, and school-aged children. You will learn all you need to know about caring for children and running a child-care business

9,10,11,12      1 Semester      .5 CTE Credit or Elective Credit

### **Entrepreneurship**

This course is designed to enable all students at the high school level to learn about the components of a business plan, ideation and innovation in products and pricing, market research process, and various management functions of operations management. The course is based on Career Technical Education (CTE) standards designed to help students understand the roles and attributes of an entrepreneur, marketing and its components, selling process, and operations management.

9,10,11,12      1 Semester      .5 CTE Credit or Elective Credit

### **Essential Career Skills**

This one-semester course is intended as a practical, hands-on guide to help students understand the skills required to achieve success in modern-day careers. This course will cover essential career skills such as positive work ethics, teamwork, conflict resolution, effective speaking and listening, health and safety, and information technology. This course is required and can be taken in 11th or 12 grade.

9,10,11,12      1 Semester      .5 CTE Required Credit

### **Exploring Computer Science**

This one-semester course is intended as a practical, hands-on guide to help you understand some of the principle skills of information technology required during your college education. This course will cover principle concepts, such as basic computer hardware and software, creation of documents, spreadsheets, and databases, desktop publishing, database management systems, the Internet, privacy and legality in the context of online media, and social networking in the context of professional reach.

9,10,11,12      1 Semester      .5 CTE Credit, Digital Studies or Elective Credit

### **Game Development**

This one-semester elective course is intended as a practical, hands-on guide to help you understand the process of game development. This course is structured into lessons and Course Activities as follows: The first four lessons are about the history of video games, types of early consoles, arcades, personal computers, and platform convergence. The next four lessons deal with game and player goals, game genres, player motivations, and player demographics. The next four lessons provide students an understanding of story and character development, gameplay, game styles, and level design. The next four lessons discuss game user interface, game audio, mobile and social gaming, and the different job roles in the video game industry. The next three lessons focus on game development phases, the role of management in game production, and various methods used for marketing games. The final lesson is about the future of gaming; it discusses existing trends and possible directions in video gaming. You will submit the Course Activity documents to your teacher and will check your own answers in the Lesson Activities that accompany each lesson. Each lesson also has a multiple-choice mastery test. A multiple-choice end-of-semester test completes the course. The Course Activities (submitted to the teacher) and the Lesson Activities (self-checked) are major components of this course.

9,10,11,12      1 Semester      .5 CTE Credit or Elective Credit

### **Graphic Design and Illustration**

This one-semester course is intended as a practical, hands-on guide to help you understand graphic design concepts, graphic image creation, and image manipulation. This course covers careers you can pursue in graphic design. It also covers training and skills required for a graphic designer. In addition, this course describes how to create images using color and typography and how to manipulate images. It also guides you how to create images using design elements and principles. Students in this course will help develop a digital school newspaper.

9,10,11,12      1 Semester      .5 CTE Credit or Elective Credit

### **Hospitality and Tourism:Traveling the Globe**

Have you ever dreamt about international travel? Have you ever imagined yourself working on a cruise ship, theme park, spa, resort? Are you curious how hotels and restaurants are managed? If yes then this course is for you!

You will develop an understanding of travel and event planning, management of tourist locations and environmental issues related to leisure and travel.

Even more exciting: we will look at career options available for you in hospitality and tourism and we will familiarize ourselves with the personal and professional skills required for the jobs in one of the fastest growing industries in the world!

9,10,11,12      1 Semester      .5 CTE Credit or Elective Credit

### **Keyboarding**

Keyboarding is a one-semester course designed to help students develop speed and accuracy by learning the touch operation of alphanumeric/keyboard characters.

Emphasis is placed on the following:

- mastery of the keyboard with desirable keyboarding techniques
- development of speed and accuracy

*Keyboarding* is an important foundational requirement for every technology learner

9,10,11,12      1 Semester      .5 CTE Credit or Elective Credit

### **Medical Terminology**

This one-semester course is intended to help you familiarize yourself with the medical terminology related to the human body systems. This course will cover the structure of the human body systems and their functions. It will also include medical terminology related to diseases, disorders, medical procedures, and treatment for each body system.

9,10,11,12      1 Semester      .5 CTE Credit or Elective Credit

### **Sport and Entertainment Marketing**

This course is not about Sports and Entertainment, but how to market jobs related to sports, entertainment, and recreation. This course covers fundamental concepts in essential skills related to advertising, sponsorship, and marketing campaigns. In addition, the course covers crucial workplace skills, such as teamwork and leadership skills.

9,10,11,12      1 Semester      .5 CTE Credit or Elective Credit

### **Web Design**

This one-semester course is intended as a practical, hands-on guide to help you understand the concepts of website design. This course guides you how to create a website using web technologies. This course will cover careers in web technology, uses of web technology, and emerging trends in web technology. It also covers principles of design and creation of graphics. In addition, the course covers Internet protocols, web development tools, and client-server processing. The course also covers web page creation using HTML and style sheets. Finally, the course covers website design and the web development process.

9,10,11,12      1 Semester      .5 CTE Credit, Digital Studies or Elective Credit

## **Language Arts 4.0 Credits Required for Graduation**

### **Language Arts 9**

Everything you ever wanted to know about grammar and essay writing. The first semester of this course will teach you how to think logically and craft a well-written essay on any subject. Then, in the second semester, you will use these skills as we dig into literature and explore what shapes personal identity.

9                      2 Semesters      1.0 Language Arts Required Credit

### **Language Arts 10: British Literature**

Step into British Literature and explore what makes a hero. The first semester of this course will be focused on grammar and writing, with an emphasis on how to write a research paper. Then, in the second semester, we will study some of England's great writers and poets.

10                      2 Semesters      1.0 Language Arts Required Credit

### **Language Arts 11: American Literature**

Following a review of grammar and essay writing, this course will take you on a tour of some of America's great authors, poets and public speakers. We will focus especially on literary analysis and comparison.

11                      2 Semesters      1.0 Language Arts Required Credit

### **Creative Writing 1**

In Creative Writing 1, you will learn about the scope of creative writing and its genres. You will identify the key elements of prose and poetry. You will look at writing for stage, film, and TV. You will learn about theatrical and film techniques, as well as technical effects that are typically used in electronic media. You will look at writing for younger audiences, for advertising, and journalism. You will learn how the publishing industry works. At key points in this course, you will get to assess your own original writing (either through self-review against a set of guidelines or by a peer) and revise it before submission to the instructor. You will notice that extended writing tasks are typically planned for in the lesson activity and actually written in the course activity that follows. This is a writing intensive course. You will spend about 60 percent of your time doing original writing, reviewing, and rewriting. You will do a good deal of your original writing in the course activities.

9,10,11,12          1 Semester          .5 Language Art or Elective Credit

### **Creative Writing 2**

This course is a project-based course intended to help you produce two publishable works. One will be a non-fiction piece intended for a specific publication and the other will be a fiction piece geared to a specific audience - either children or teenagers. You will also research publishers and learn how to properly write a cover letter for your finished works. This course will be writing intensive as 100% of your work will be writing or revising your written work. Prerequisite: Creative Writing 1

9,10,11,12          1 Semester          .5 Language Art or Elective Credit

### **Dystopian Literature**

This course is focused on Dystopian societies in literature. It examines the process by which such a society is invented and the purpose behind Dystopian literature. Students will study several Dystopian short stories, read and analyze 2 Dystopian novels of their choosing and create a Dystopian society of their own.

9,10,11,12          1 Semester          .5 Language Art or Elective Credit

### **Gothic Literature**

This class explores different conventions, themes, and elements of Gothic literature through the analysis of representative literary works, such as Emily Dickinson's poems about mortality and spirituality, Robert Louis Stevenson's classic Gothic novella Strange Case of Dr. Jekyll and Mr. Hyde, Edgar Allan Poe's Gothic short stories, Bram Stoker's Dracula, Robert Browning's Gothic poems, Percy Bysshe Shelley's Gothic drama, The Cenci, Mary Shelley's classic Gothic novel, Frankenstein, Gothic parodies and Gothic subgenres, and modern Gothic literature.

9,10,11,12          1 Semester          .5 Language Art or Elective Credit



### **Sci Fi/Fantasy Literature**

Have you ever wanted to create your own world or your own alien race? Here is your chance. Using knowledge learned studying several great works of science fiction, you will not only create your own alien world, but you will develop the story for several levels of an original video game that will take place on that world.

9,10,11,12      1 Semester      .5 Language Art or Elective Credit

### **The World in Short Stories**

This course examines the cultures of the world through the lens of the literature they produce. Students will begin by studying the structure and style of the short story. They will then study stories from various world cultures and analyze how each culture makes this type of literature their own, and how we can learn about the culture through elements like setting, characterization and theme. Finally, students will create a short story that is representative of their local and family culture.

9,10,11,12      1 Semester      .5 Language Art or Elective Credit

### **World Mythology**

Come travel around the world and explore the mythology of various world cultures. We will delve into creation myths, death myths, myths about the end of the world, and, perhaps most importantly, hero myths. We will have fun exploring the world and perhaps discovering a bit about ourselves along the way.

9,10,11,12      1 Semester      .5 Elective Credit

## **Mathematics 3.0 Credits Required for Graduation**

### **Secondary Math 1 A&B**

Integrated Math is a comprehensive collection of mathematical concepts designed to give a deeper understanding of the world. It includes ideas from algebra, geometry, probability and statistics, and trigonometry, and teaches them as interrelated disciplines. In Math 1, students begin with algebra. Students will build on their understanding of single-variable and two-variable expressions, equations, and inequalities. Students will also learn how to write equations and inequalities to represent and solve word problems. Students will explore the connections between algebra and geometry. Students will learn about functions and use them to solve real-world math problems. Students will study data collection methods and use different types of data plots to represent and analyze statistical data. Students will learn geometric theorems and rules and write proofs to support them. Students will also explore congruency and similarity of triangles. This course is recommended for 9th grade students

9                      2 Semesters      1.0 Required Math Credit

### **Secondary Math 2 A&B**

Integrated Math is a comprehensive collection of mathematical concepts designed to give a deeper understanding of the world. It includes ideas from algebra, geometry, probability and statistics, and trigonometry, and teaches them as interrelated disciplines. In Math 2, students will begin with polynomial expressions, including rational expressions. Students will learn about quadratic equations and inequalities and solve them to find answers to real-world math problems. Finally, students will use this knowledge to examine polynomial functions. Students will study the connections between algebra and geometry. Students will learn about functions and use them to solve real-world math problems. Students will study data collection methods, and you will use different types of data plots to represent and analyze statistical data. Students will learn about geometric theorems and rules and write proofs to support them. Students will also explore congruency and similarity of triangles. This course is recommended for 10th grade students.

10                      2 Semesters      1.0 Required Math Credit

### **Secondary Math 3 A&B**

Integrated Math is a comprehensive collection of mathematical concepts designed to give a deeper understanding of the world. It includes ideas from algebra, geometry, probability and statistics, and trigonometry, and teaches them as interrelated disciplines. In Math 3, students will understand and work with polynomial expressions, including rational expressions. Students will also examine the relationship between equations and functions and analyze trigonometric functions in detail. Students will study and apply the laws of sine and cosine functions. Students will also investigate the cross sections and density of three-dimensional geometric figures. Students will use equations, inequalities, and functions to solve real-world math problems. Students will also look at function graphs and explore transformation of functions. Students will analyze statistical data and data collection methods and use probability to make decisions. This course is recommended for all 11th grade students. This class can be taken in 12th grade if needed. Students can take elective math courses in place of this course with a parental signature.

11,12            2 Semesters    1.0 Required Math Credit

### **Mathematics of Personal Finance A&B**

In this one-semester course, students will learn practical applications of math. They will learn how to plan a budget, manage bank accounts, and figure the cost of a good or service. They will also learn about taxes, payroll deductions, and how to invest and borrow money. This course will help students make informed decisions about buying or renting a home or car and teach them how to protect purchases and investments with insurance. Finally, students will study economics, or the science of the creation, distribution, and consumption of goods and services. They'll see how economics affects them as an individual and how it affects the country as a whole. With parental signature, this class can be taken in place of Math III.

9,10,11,12    2 Semester    1.0 Optional Math Credit or Elective Credit

### **Physical Education Health 2.0 Credits Required**

#### **Fitness for life**

Fitness for Life is an individualized, concepts-based course. Fitness for Life is designed to give students the knowledge and skills necessary to self-assess, create, conduct, evaluate, and redesign personal fitness programs. This class is required of all students and there are no substitutions, including participation in athletics. Fitness for Life may be taken anytime during grades nine through twelve, but it is strongly recommended that students take the class in either the ninth or tenth grade year. The course is a combination of classroom and activity-based learning activities with a focus on proper nutrition and the mastery of skills and concepts necessary for students to become accomplished monitors of their personal lifetime fitness. Through participation, students learn to compare the fitness benefits in a variety of individual and team activities. It is recommended that students take this course in 10th grade.

9,10,11,12    1 Semester    .5 P.E. Required Credit

#### **Health**

Health education provides opportunities for students to develop knowledge, skills, and attitudes necessary for practicing lifelong, health-enhancing behaviors. This curriculum focuses on what students can do for themselves to meet the objectives of the six state core standards and illustrates the impact their attitudes and behaviors have on the world around them. Students will learn they are responsible for their personal well-being and that building a solid foundation of health literacy and decision-making skills can contribute to positive health choices throughout life. In addition, they will explore the impact their personal health has on society as a whole. It is recommended that student take this course in 10th grade.

9,10,11,12    1 Semester    .5 P.E. Required Credit

#### **Participation Skills**

This class offers students instruction in lifetime activities and fulfills the P.E. requirement for high school graduation. Individual, dual, and team sports activities are included, with the emphasis on activities offering lifelong participation opportunities. Participation Skills and Techniques is designed to develop competency in up to five different activities. Competency involves the ability to apply the basic skills, strategies, and rules using standardized guidelines or rubrics. It is recommended that students take this course during 9th grade.

9,10,11,12    1 Semester    .5 P.E. Required Credit

## **Individual Lifetime Activities**

Lifetime Activities class will provide students with instruction and an opportunity to develop skills and understanding in a wide variety of individual, team sports and group activities. These activities may be competitive, non-competitive or fitness related. Students are expected to gain a working understanding of the rules and strategies in an assortment of competitive activities and enhance their individual skill and level of physical fitness. Students will also be expected to enhance their level of fitness and conditioning through regular fitness training throughout the course.

11, 12            1 Semester    .5 P.E. Credit Required Credit

## **Science 3.0 Credits Required for Graduation**

### **Animal/ Vet Science**

In the Introduction to Veterinary and Animal Science course, you will explore the history of veterinary science, and the skills and requirements for a successful career in the veterinary industry. You will also explore the physiology and anatomy of animals, learn how to evaluate their health, and determine effective treatment for infectious and noninfectious diseases. Additionally, you will learn about zoonotic diseases, and the impact of toxins and poisons on animal health.

9,10,11,12      1 Semester      .5 Science Credit, CTE or Elective Credit

### **Astronomy**

Ever wonder about the stars and planets in the sky? In this class we will learn why and how they exist. We will learn how the Universe began and what is happening right now. We will learn about the Life Cycle of a star. We will learn about how a solar system forms. What is gravity? Black Holes? Dark Matter? How did astronomy begin and why? We will also learn about the moon and why and how it affects the earth on a daily basis. This class is unique in that the Universe is constantly changing. Every time the Hubble telescope sends us a picture there is something new to see. We will explore these pictures as we apply them to concepts we are learning.

9,10,11,12      2 Semesters    .5 Science Credit or Elective Credit

### **Biology**

The Biology Core Curriculum has two primary goals: (1) students will value and use science as a process of obtaining knowledge based on observable evidence, and (2) students' curiosity will be sustained as they develop and refine the abilities associated with scientific inquiry. The Biology Core has three major concepts: 1 The structures in all living things occur as a result of necessary functions. 2 Interactions of organisms in an environment are determined by the biotic and abiotic components of the environment. 3 Evolution of species occurs over time and is related to the environment in which the species live.

9,10,11,12      2 Semesters    1.0 Foundation Science Credit

### **Chemistry**

This science class studies elements, mixtures and compounds that differ and react with each other. Students will learn about the composition, structure and properties of different materials. Universities require this class for those majoring in fields such as engineering, medicine (including nursing), agriculture, family life and business as well as others. This class is excellent for the preparation of the ACT test. If you do not pass the A part you cannot take the B part. Secondary Math II is a prerequisite for this class.

10,11,12        2 Semesters    1.0 Foundation Science Credit

### **Earth Science**

This class is about the Earth and all its individual systems. We will learn about :Plate Tectonics: How the earth moves and Volcanoes are made. We will learn about the ocean floor and the mountains. The Hydrologic System: Where do the oceans and rivers come from? Why are they important? Earth Structures: What make a beach a beach? What is an estuary? How did glaciers shape the land? How does this affect us today? Rocks and Minerals: Why is the rock cycle important? What is the rock cycle? How do minerals form? Why are minerals and rocks important to us today? The atmosphere: How is this different from other planet? What is convection and conduction? How does this affect our weather and climate. And many other sub-systems of the earth and how they relate to the unique planet we call home. This course is usually taken in 9th or 10 grade.

9,10,11,12      2 Semesters    1.0 Foundation Science Credit

### **Forensic Science**

In Introduction to Forensic Science, you will learn about the importance and limitations of forensic science and explore different career options in this field. You will also learn to process a crime scene, collect and preserve evidence, and analyze biological evidence such as fingerprints, blood spatter, and DNA. Moreover, you will learn to determine the time and cause of death in homicides and analyze ballistic evidence and human remains at a crime scene. Finally, you will learn about forensic investigative methods used in arson, computer crimes, financial crimes, and forgeries.

9,10,11,12      1 Semester      .5 Science Credit, CTE or Elective Credit

### **Marine Biology**

Marine biology is the study of marine organisms, their behavior and interactions with their environment. Because we depend on our oceans we need to understand how they work and how to preserve them. This class will provide a basic understanding of the biological systems that comprise our oceans. General biology is not required before taking this class, but it is recommended.

9,10,11,12      1 Semester      .5 Science Credit or Elective Credit

### **Physics**

Ever wonder why something moves? In this class we will learn not only why it moves, but how. Ever wonder what earthquake safe means, in this class we learn the physics behind architecture. We will also learn about nuclear reactors, the Theory of Relativity and how we use it every day. We will learn the difference between stock or modified race cars. We will learn why objects fall to the ground. Acceleration and all its applications. What is gravitational pull? Why don't the planets fall out of the universe? Why don't they run into each other? What is radiation? Why is this used in medical procedures every day? We will learn this history behind physics and many more things. This class is taken in 11th or 12th grade.

11,12              2 Semesters      1.0 Foundation Science Credit

## **Social Sciences 3.0 Credits Required for Graduation**

### **Big Thinkers and Inventors**

Learn about important men and women in history and how they changed our world. Study and apply the attributes and character traits that made them great, including goal setting techniques Also work on our own student and class inventions.

9,10,11,12      1 Semester      .5 Elective Credit

### **Philosophy**

In this course, we will explore some of the world's oldest and deepest questions. We will discover what great minds have said on these issues and explore what we think about them. Explore the world and the depths of your own mind!

9,10,11,12      1 Semester      .5 Social Studies Required Credit

### **U.S. Government**

A study of American constitutional democracy at the national level, including political institutions, interests, ideals, and the processes through which policies are formulated and implemented. This is a recommended course for all 10th grade students, but can be taken later if needed.

10                  1 Semester      .5 Social Studies Required Credit

### **U.S. History**

A chronological survey of American history from Native American and European colonial origins to the present. First Semester will cover events leading up to and including the Civil War. Second semester will cover events following the Civil War to the present. This is a recommended course for all 11th grade students.

11                  2 Semesters      1.0 Social Studies Required Credit

### **World Civilization**

Examines the political, social, cultural, economic, religious, scientific, and intellectual influences on the development of world civilizations. This is recommended for all 10th grade students, but can be taken later if needed.

10                      1 Semester              .5 Social Studies Required Credit

### **World Geography A**

The study of different places, countries, and regions of the world. Geography A focuses on physical and cultural geography as well as the Western Hemisphere. This is a recommended course for all 9th grade students, but can be taken later if needed.

9,10,11,12              1 Semester              0.5 Social Studies Required Credit

### **World Geography B**

The study of different places, countries, and regions of the world. Geography B focuses on Europe, Asia, Africa, and Oceania. This is a Social Studies elective course. Students wishing to take Geography B must first complete Geography A.

9,10,11,12                      1 Semester              0.5 Elective Credit

### **Philosophy**

This one-semester course is intended as a practical guide to help you understand the subject matter of philosophy, its main branches, and the major ideas and issues discussed in each branch. You will understand the subject matter of philosophy and key contributions by major philosophers. Explore the major branches of philosophy. Learn about the beginnings of philosophical questioning.

11, 12                      1 Semester              .5 Social Studies Required Credit

### **Psychology**

This course explores the basic theories and principles of psychology. It guides students to a better understanding of the self. Students will also study consciousness and adolescent development, as well as traditional topics such as behaviorism, personality, learning, and social psychology.

9,10,11,12              1 Semester              .5 Elective Credit

### **Sociology**

This course is a study of the way groups act and think as a result of socialization. It also focuses on students' roles in society and how they can personally make a difference.

9,10,11,12              1 Semester              .5 Elective Credit

### **World Languages**

Our Language courses will utilize the Plato courseware computer software supported by a certified language teacher. One full year of the same foreign language is required for graduation. More credits can be taken as electives.

### **French I A&B**

Students will develop a basic French vocabulary that will include telling time, talking about school and classes, expressing likes and dislikes, greeting others, and knowing the terminology for numbers, clothing, and food. Students will also be introduced to French culture and history. This class is for students who have little or no knowledge of the French Language.

9,10,11,12                      2 Semesters              1.0 World Language Credit

### **French II A&B**

Students will continue to learn to communicate in French; reading, writing, speaking, and culture will be stressed. Students will review and enlarge their vocabularies; study holidays, professions, history, and literature; and practice grammar and writing. These courses are for students who have completed one or two years of a language and want to continue further study of the language.

9,10,11,12                      2 Semesters              1.0 World Language Credit

### **German I A&B**

This course is an introduction to the German language and culture; students will practice conversations, pronunciation, patterns, basic grammar, reading, and writing about familiar topics. Students will identify many vocabulary words that deal with clothing, school supplies, shopping, giving directions, sports, body parts, nature, kitchen, transportation, and occupations.

9,10,11,12                      2 Semesters      1.0 World Language Credit

### **German II A&B**

Students will focus on developing speaking, listening, reading, and writing skills, with appropriate grammatical principles as well as additional insights into culture. These courses are for students who have completed one or two years of a language and want to continue further study of the language.

9,10,11,12                      2 Semesters      1.0 World Language Credit

### **Spanish I A&B**

This course is an introduction to the Spanish language and culture; students will practice conversations, pronunciation, patterns, basic grammar, reading, and writing about familiar topics. Students will identify many vocabulary words that deal with clothing, school supplies, shopping, giving directions, sports, body parts, nature, kitchen, transportation, and occupations. They will also learn to conjugate verbs in the present and past tenses and use them in sentences as well as use basic expressions in conversation. Students will also learn to use the correct pronunciation for different phrases and vocabulary words and compose simple sentences and conversations in Spanish. Finally, students will explore the Hispanic culture. This class is for students who have little or no knowledge of the Spanish Language.

9,10,11,12                      2 Semesters      1.0 World Language Credit

### **Spanish II & III A&B**

Students will focus on developing speaking, listening, reading, and writing skills, with appropriate grammatical principles as well as additional insights into culture. These courses are for students who have completed one or two years of a language and want to continue further study of the language.

9,10,11,12                      2 Semesters      1.0 World Language Credit

## **Other Required Courses 1.0 Credits Required for Graduation**

### **General Financial Literacy**

The .5 credit General Financial Literacy Core is designed for junior and senior students and represents those standards of learning that are essential for all students. The implementation of the ideas, concepts, knowledge, and skills contained in the General Financial Literacy Core enable students to become wise and knowledgeable consumers, savers, investors, users of credit, money managers, citizens, and members of a global workforce and society.

11, 12                      1 Semester      .5 Required Credit

### **Digital Studies**

Computer literacy is a foundational element of success in today's technology-driven world. One semester of Digital studies is required for graduation. Students can choose from Digital Business Applications, Exploring Computer Science or Web Design. It is recommended that this class be taken during a student's 9th grade year.

9,10,11,12                      1 Semester      .5 Required Credit

## **General Elective Offerings**

### **Study Skills**

In this course, students learn how to lay a foundation for successful, responsible adulthood by using time effectively, setting goals, avoiding procrastination, overcoming feelings of inadequacy within school subjects, and developing self-motivation. A teacher will be available to assist students who need extra help completing assignments and understanding content. This course can be taken each semester if it is determined the student needs the extra help.

9,10,11,12      1 Semester      .5 Elective Credit

### **Driver Education**

This class will be available for the 2019-2020 school year. More information will be sent to interested students upon request.