



# K12 PREPARATORY ACADEMY **CATALOG**

2023-2024

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## MISSION AND VISION STATEMENT

### Our Mission

We are committed to providing a positive e-learning environment that promotes academic excellence, self-confidence, emotional well-being, and social consciousness. Our students gain a sense of inclusion and belonging, resulting in positive behavioral development.

### Our Vision

To provide nontraditional, at-risk students the opportunity, tools, and motivation to dream about creating a better future for themselves and others.





## OUR CORE VALUES

### Integrity

I am a unique voice, with thoughts to share that are my own! I take pride in submitting assignments that are my original writings and sharing them with teachers and peers!

### Responsibility

Pace me, and I take charge when it comes to my schedule. I am responsible for my learning career!

### Independence

The freedom to decide when I learn, where I learn, and how I learn. I take charge of my own education.

### Respect

This will manifest in polite consideration in all communications, reserving offense, admitting mistakes, offering easy forgiveness, and remaining goal-oriented toward academic success for K12 Prep Academy students at all times.

### Excellence

Excellence means the quality of being outstanding or extremely good. K12 Prep Academy student's shine of excellence and are the innovators of our future.





# ELEMENTARY SCHOOL

## Language Arts Courses

### **5010041 Language Arts Grade K**

Learn to read with Penelope the Pirate! In this course, students will go on a reading adventure where they'll learn new letters and sounds and how to put them together to make words. Students will go on an alphabet safari, play games, read along with interactive storybooks, and even record themselves sounding out words, as they discover a whole new world through reading.

### **5010042 Language Arts Grade 1**

Calling all environmentalists! In this course, students will follow Ninovan, the Environmental Scientist, on a learning adventure. Students will explore writing, grammar, phonics, and more. They will practice sight words and reading fluency, learn reading comprehension skills with both literature and informational texts, and go through the writing process with expository, narrative, and opinion-based writing.

### **5010043 Language Arts Grade 2**

The Elementary English Language Arts courses provide students with a rigorous and comprehensive look at the ELA standards, focusing on reading foundational skills, reading comprehension strategies through informative and literature texts, writing, grammar, and speaking and listening skills. Throughout the English Language Arts courses, students will explore a myriad of topics through integration across content areas.

### **5010044 Language Arts Grade 3**

In Language Arts Grade Three, students will engage in a variety of topics as they explore the world of reading and writing. Students will learn foundational skills, vocabulary, reading comprehension, grammar, and the writing process as they write narratives, informational, and opinion essays. In this course, students will participate in engaging lessons that include interactives, informational and literature texts, graphic organizers, videos, and various practice activities.

### **5010045 Language Arts Grade 4**

This course defines what students should understand and be able to do by the end of 4th grade. The standards emphasize explicit, systematic phonics instruction as the foundation of literacy. Decoding and fluency are essential to creating proficient readers. Knowledge acquisition should be the primary purpose of any reading approach as systematic building of a wide range of knowledge across domains is a prerequisite to higher literacy.

### **5010046 Language Arts Grade 5**

This course defines what students should understand and be able to do by the end of 5th grade. The standards emphasize explicit, systematic phonics instruction as the foundation of literacy. Decoding and fluency are essential to creating proficient readers. Knowledge acquisition should be the primary purpose of any reading approach as systematic building of a wide range of knowledge across domains is a prerequisite to higher literacy.



# ELEMENTARY SCHOOL

## Math Courses

### 5012020 Grade K Mathematics

Jump in and explore the world of numbers on a bug hunt, under the sea, and at the beach. Students will learn to count, compare numbers, identify shapes, add, subtract, and measure in this course. Along the way, they will have hands-on activities and friendly characters such as Niko, Riley, and Slater to practice their problem-solving skills.

### 5012030 Grade 1 Mathematics

This Elementary math courses inspire students to become critical thinkers and problem solvers. The learners use math as a tool to make sense of and understand the world around them. The courses include media that uses sight and sound to engage students.

### 5012040 Grade 2 Mathematics

In Math Grade 2, students will use addition and subtraction within 100 to solve one-and two-step word problems. The course provides the opportunity for students to continue building their understanding of place value using hundreds, tens, and ones. Students will use this knowledge, as well as strategies, to add and subtract within 1,000.

### 5012050 Grade 3 Mathematics

In this course, students will use math strategies to help at the Sports Factory using addition and subtraction, use multiplication to complete the Amazing Math Race, and use fractions to help at the Animal Rescue Center. By the end of this course, students will be comfortable working with fractions, representing data, and solving one-and two-step word problems.

### 5012060 Grade 4 Mathematics

The course provides the opportunity for students to see the relationship between fractions and decimals and introduces addition and subtraction of each. Using a protractor to draw and measure angles is another focus of the course. Other engaging activities include learning about measurement, and using median, mode, and range as ways to interpret data.

### 5012070 Grade 5 Mathematics

In this course, students will use division skills to navigate their journey across the Arctic circle. Then, students will participate in an escape challenge at an art museum where they will add and subtract fractions to escape each exhibit. Students will also go inside a video game where they will build on their knowledge of finding the area or volume of a given shape.





# ELEMENTARY SCHOOL

## Science Courses

### **5020010 Grade K Science**

The Elementary Science K course will spark curiosity in students and build a solid foundation in concepts across many types of sciences including Earth Science, Life Science, and Physical Science. Students will engage in science and engineering practices by asking questions, defining problems, developing and using models.

### **5020020 Grade 1 Science**

A framework of active student learning supports and allows students to engage, explore, explain, elaborate, and evaluate throughout all courses. This dynamic format will help students build their own understanding from experiences and new ideas in order to facilitate a better understanding of the world around them.

### **5020030 Grade 2 Science**

Science brings science alive by providing students a combination of virtual lab investigations (with options for hand-on learning), interactive lessons, and an array of e-books that capture students' attention and grow their interest in science. Students engage in science and engineering practices as they explore topics such as matter and its interactions, changes to the earth, and plants and animals.

### **5020040 Grade 3 Science**

The students learn about their senses and how their eyes, ears, nose, and taste buds work. Students will then learn about eco-systems; what they are, how they function, and how to protect them. Next the students expand on previous knowledge gained about how the Earth's surface changes and the major parts of our solar system. They are introduced to new information about comets, asteroids, meteoroids, and the contributions of Galileo Galilei to astronomy.

### **5020050 Grade 4 Science**

Science brings science alive by providing students a combination of virtual lab investigations (with options for hand-on learning), interactive lessons, and an array of e-books that capture students attention and grow their interest in science. Students engage in science and engineering practices as they explore topics such as energy, waves, information transfer, plant and animal structures, senses, and the earth's features and resources.

### **5020060 Grade 5 Science**

Science brings science alive by providing students a combination of virtual lab investigations (with options for hand-on learning), interactive lessons, and an array of e-books that capture students attention and grow their interest in science. Students engage in science and engineering practices as they explore topics such as matter, organisms, ecosystems, the earth's systems, and the earth's place in the universe.



# ELEMENTARY SCHOOL

## Social Studies Courses

### **5021020 Grade K Social Studies**

This course introduces students to fundamental topics within the social studies discipline. These topics include family, home, community and culture, geography, chronology, early U.S. history, civics and the responsibilities of citizenship, and economics. Students begin by locating themselves and their families within a community and culture. They learn about basic physical geogra-phy and how to read maps and globes.

### **5021030 Grade 1 Social Studies**

This course covers several different areas of social studies, including physical and human geography; history and historical sources; U.S. symbols, songs, and celebrations; citizenship and civic responsibility; and economics. Students learn about the locations, characteristics, resources, and cultures of the earth, as well as those in their own community. They explore concepts related to the study of history and the history of the United States.

### **5021040 Grade 2 Social Studies**

Second graders experience a broad introduction to social studies and build a base for future learning. Students expand their map skills by using features of maps, including scale, direction, and location, read maps and draw conclusions. They put their map skills to use exploring the physical and human features of their community, state, country, continent, and world.

### **5021050 Grade 3 Social Studies**

Third graders explore the world around them through the lens of diverse social studies concepts and topics. Students apply their knowledge of basic map skills to identify the purpose of various maps and interpret how people adapt and change their environ-ment to adjust to different climates and natural resources. Students then investigate the regions of the country, studying their physical and human features, history, and culture.

### **5021060 Grade 4 Social Studies**

Fourth graders investigate the geography, history, economics, and civics of the United States. Students begin their study of ge-ography by learning how to read and interpret different types of maps. They use maps to explore the five regions of the United States, as well as neighboring countries to the north and south. Students learn about the nation's natural landmarks and land-forms, weather and climate, plant life, and wildlife.

### **5021070 Grade 5 Social Studies**

Students in History of the United States ED explore United States history, geography, economics, and government. This is done by focusing on the influence of physical and cultural characteristics on national origins, growth, and development. Students study Indigenous cultures, European exploration, colonization, settlement, the American Revolution, the founding of the Republic, the early years of the United States, the Civil War, and the 20th Century in the United States.



## MIDDLE SCHOOL

### Language Arts

#### **1001010 Language Arts Grade 6**

Students will work to further develop their skills in writing, reading, and speaking. They will use the six traits of writing to improve their writing and editing skills while being introduced to the informative, persuasive, narrative, and descriptive writing styles. Emphasis will be placed on writing a clear and well-developed paragraph. Students will undertake a detailed study of grammar learning and applying the eight parts of speech to their writing. Students will gain an appreciation for various genres of literature as they read the novels for this course. Through those novels, they will study vocabulary, spelling, and elements of literature.

#### **1001040 Language Arts Grade 7**

This course focuses on writing and literature. Students will review the eight parts of speech focusing on usage and applying the rules of grammar to their writing. As students work with functional, narrative, informative, and persuasive styles of writing, emphasis will be put on writing and editing a paper with an introduction, thesis, appropriate transitions, and a conclusion. In literature, students will study the elements of short stories as well as novels. They will further develop their vocabulary and spelling skills through these works of literature as well as use the themes presented to practice critical thinking skills and make real-life applications.

#### **1001070 Language Arts Grade 8**

In these classes, the students will study vocabulary, literature, grammar, research, Internet usage, speech, and writing. The students will read novels in class for literary study; they will also read books and take tests to develop comprehension skills. The speeches and writings will be research-based with appropriate documentation.





## MIDDLE SCHOOL

### Math

#### 1205010 Math Grade 6

The sixth-grade math curriculum is designed for students to master addition, subtraction, multiplication, and division of whole numbers, decimals and fractions; graphing and statistics; measurement and geometry; ratio, proportion and probability; percent; area and volume; and integers.

#### 1205040 Math Grade 7

The seventh-grade curriculum contains strong mathematical content with real-life connections. This course includes the basic study of exponents, rounding, place value, metrics, order of operations, using various graphs, adding, subtracting, multiplication, and division of decimals and fractions. It also includes lowest common multiples, greatest common factors, and probability. The course will involve integrating algebra throughout.

#### 1205070 Pre-Algebra Grade 8

This course includes the basic study of percent applications, exponents, scientific notation, metrics, multi-step problems, lowest common multiples, greatest common factors, fractions, decimals, graphing, geometry, probability and statistics, and two variable equations in algebra.

### Science

#### 2002040 General Science Grade 6

This course covers a variety of scientific areas including life's structure and function, diversity of life, life and the environment, Earth's air and water, earth, and space, matter, forces, and energy, electricity and magnetism.

#### 2000010 Life Science Grade 7

The seventh grade Life Science covers living things around us serve as the subjects of study for this course, including ecology, cell life and structure, life processes, classification, genetics, and organisms.

#### 2003010 Physical Science Grade 8

The eighth-grade program looks at the Physical Sciences of chemistry and physics. Here, the major topics are matter and energy, and how they can be changed for the good of man. Subjects covered include the structure of matter, the atom, motion, energy, simple machines, magnetism, waves, light, sound, and energy resources.





## MIDDLE SCHOOL

### Social Studies

#### **2103010 Social Studies Grade 6**

Students are introduced to basic geography skills, land, and people. Students study of the world's regions using the Five Themes of Geography. The regions include: Location (both absolute and relative), place (the physical and human characteristics), human/ environment interaction (the relationships within places) movement (the mobility of people, goods and ideas) and region (how they form and change)

#### **2106010 Civics Grade 7**

The seventh-grade social studies course is the second part of a two-year survey of United States history. It focuses on the period from 1860 to the present. The changing economic and social structure of the United States in the twentieth century is explored and evaluated. Special emphasis is placed on the evolving role of America as a global military and economic power and the effect of this development on our domestic political agenda. The effort is made to create interdisciplinary lesson plans that coincide with literature concurrently studied in English classes.

#### **2100010 U.S. History Grade 8**

The eighth-grade social studies course is the beginning of a two-year survey of United States history. It focuses on the period from the development of the first Native American cultures to the rise of sectional division in the 1850s. Basic geography skills, current events, and research projects are used to enhance student learning.





# MIDDLE SCHOOL

## Electives

### 1234510 Digital Citizenship

You may not have heard of the term “Digital Citizenship,” but you are probably already familiar with the behaviors and expectations that being a good “digital citizen” consists of. In this online course, you’ll learn the many different areas within the realm of Digital Citizenship and perhaps begin to think critically about your own behavior.

### 1009000 Digital Storytelling

Digital stories focus on a specific topic and contain a particular point of view. However, as the name implies, digital stories usually contain some mixture of computer-based images, text, recorded audio narration, video clips, and/or music. Digital stories can vary in length, but most of the stories used in education typically last between 2 and 10 minutes. The topics used in digital storytelling range from personal tales to the recounting of historical events, from exploring life in one’s own community to the search for life in other corners of the universe, and literally, everything in between.

### 0800000 Personal Fitness

The purpose of this course is to provide students with the knowledge, skills, and values they need to become healthy and physically active for a lifetime. This course addresses both the health and skill-related components of physical fitness which is critical for students’ success.

### 0400000 Theatre

Students learn the basics of building a character through such activities as pantomime, improvisation, and effective speaking using articulation, projection, and breathing. Students also learn the importance of technical theatre and explore the use of such elements as costumes, props, and scenery. Students practice writing for the theatre and explore various theatre roles and functions. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside of the school day to support, extend, and assess learning in the classroom.





# GRADUATION REQUIREMENTS

Subject Area	College and Career
<b>Mathematics</b>	<ul style="list-style-type: none"><li>● 4 Credits</li><li>● One of which must be Algebra 1 and one of which must be Geometry</li><li>● Industry Certifications that lead to college credits may substitute for up to two mathematics credits (except for Algebra 1 &amp; Geometry)</li><li>● An identified computer science credit may substitute for up to one mathematics credit (except for Algebra 1 &amp; Geometry)</li></ul>
<b>Science</b>	<ul style="list-style-type: none"><li>● 3 Credits</li><li>● One of which must be Biology 1, two of which must be equally rigorous science courses</li><li>● Two of the three required course credits must have a laboratory component</li><li>● Industry Certification that leads to college credits may substitute for up to one science credit (except for Biology 1)</li><li>● An identified computer science credit may substitute for up to one science credit (except for Biology 1)</li></ul>
<b>Social Studies</b>	<ul style="list-style-type: none"><li>● 3 Credits</li><li>● 1 credit in World History</li><li>● 1 credit in U.S. History</li><li>● 0.5 credit in U.S. Government</li><li>● 0.5 credit in Economics</li></ul>
<b>Fine and Performing Arts, Speech and Debate, or Practical Arts</b>	<ul style="list-style-type: none"><li>● 1 Credits</li></ul>
<b>Physical Education</b>	<ul style="list-style-type: none"><li>● 1 Credits</li><li>● To include the integration of health</li></ul>
<b>Elective</b>	<ul style="list-style-type: none"><li>● 8 Credits</li></ul>
<b>Online Course</b>	<ul style="list-style-type: none"><li>● 1 Credits</li><li>● Students must earn a 2.0 grade point average (GPA) on a 4.0 scale for all cohort years.</li></ul>



# HIGH SCHOOL

## English

### **1001310 English 1 (1 Credit)**

English I provides instruction in the Language Arts strands of the reading process, literary analysis, writing process, writing applications, communication, and information and media literacy. It offers instruction in reading and vocabulary strategies necessary for comprehension of printed materials; research; the writing of effective paragraphs and multi-paragraph papers, with emphasis upon all stages of the writing process is timed and untimed assessments (prewriting, drafting, revising, editing, publishing); speech instruction including formal and informal presentations; evaluation of mass media; the analysis of genres and the study of language in conjunction with writing, concentrating on conventions of grammar, usage, and mechanics. Technology is incorporated into all aspects of the course.

Prerequisite: N/A

### **1001340 English 2 (1 Credit)**

English 2 provides instruction in the Language Arts strands of the reading process, literary analysis, writing process, writing applications, communication, and information and media literacy. Content includes instruction in reading literature and in vocabulary strategies necessary to comprehend printed materials; the writing of essays for various purposes and audiences, using literary and nonliterary subjects; untimed and timed writings, utilizing all elements of the writing process where appropriate (prewriting, drafting, revising, editing and publishing); emphasis of applicable research; analysis of selections found in world literature; study of grammar, mechanics, usage and other conventions of standard written English in conjunction with writing. Technology is incorporated into all aspects of the course.

Prerequisite: English 1

### **1001370 English 3 (1 Credit)**

English 3 provides instruction in the Language Arts strands of the reading process, literary analysis, writing process, writing applications, communication, and information and media literacy. This study will include the analysis of representative examples of American literary works in various genres, as they illustrate distinctive national qualities and the ethnic and cultural diversity of the American experience. Vocabulary, grammar, and usage are studied in conjunction with literature and writing. Listening, speaking, researching, and writing assignments are related to the study of American literature. Technology is incorporated into all aspects of the course.

Prerequisite: English 2

### **1001400 English 4 (1 Credit)**

English 4 provides instruction in the critical analysis of representative examples from British literature, as they reflect changes in the language and the development of the literary traditions of the English language. Writing experiences are structured to provide practice in real-life writing situations likely to be encountered beyond secondary school, including technical, creative, and traditional academic modes. Opportunity is provided to extend speaking, researching, and listening skills. Content includes instruction in vocabulary strategies and reading necessary for the comprehension of printed materials. Technology is incorporated into all aspects of the course.

Prerequisite: English 3



# HIGH SCHOOL

## Mathematics Courses

### **1200310 Algebra I (1 Credit)**

This course is a study of the topics of Algebra I designed to develop the algebraic concepts and processes that can be used to solve a variety of real-world mathematics problems. The content will include: properties of the real number system; varied means for analyzing and expressing patterns, relations and functions; variables, algebraic expressions and polynomials; geometric concepts; set operations; dimensional analysis; data analysis concepts and techniques; and varied solution strategies, algebraic and graphic, solutions for inequalities. Calculators and computers will serve as instructional tools in concept development.

Prerequisite: Pre-Algebra

### **1200330 Algebra II (1 Credit)**

This course is designed to continue the study of algebra and to provide the foundation for applying these skills to other mathematical and scientific fields. The content will include: structure and properties of the complex number system; sequences and series; relations; functions and graphs; varied solution strategies for linear equations, inequalities, and systems of equations and inequalities; quadratic, exponential, and logarithmic functions; and their applications; data analysis; reinforcement of geometric concepts, and probability. Calculators and computers will serve as instructional tools in concept development.

Prerequisite: Algebra I or equivalent

### **1206310 Geometry (1 Credit)**

The purpose of this course is to develop the geometric relationships and deductive strategies that can be used to solve a variety of real-world and mathematical problems. The content will include Euclidean geometry of lines, planes, angles, triangles, construction and logic, and properties of circles, polygons, right triangle trigonometry, and reinforcement of algebraic concepts. Calculators and computers will serve as instructional tools in concept development.

Prerequisite: Algebra I

### **1202340 Pre-Calculus (1 Credit)**

This course is designed to strengthen and extend the student's knowledge of algebraic and trigonometric concepts and to prepare the student for calculus. The content will include mathematical induction, symbolic logic, Boolean and matrix algebra, probability and statistics, elementary functions and limits. Calculators and computers will serve as instructional tools in concept development.

Prerequisite: Algebra II

### **1200700 Mathematics for College Readiness (1 credit)**

This course is targeted for students who are not yet "college ready" in mathematics or simply need some additional instruction in content to prepare them for success in college level mathematics. This course incorporates the Florida Standards for Mathematical Practices as well as the following Florida Standards for Mathematical Content: Expressions and Equations, The Number System, Functions, Algebra, Geometry, Number and Quantity, Statistics and Probability, and the Florida Standards for High School Modeling.

Prerequisite: N/A



# HIGH SCHOOL

## Science Courses

### **2000310 Biology 1 (1 Credit)**

Biology 1 will provide opportunities to students for general exploratory experiences and activities in the fundamental concepts of life. Topics will include but not be limited to: the scientific method, measurements, laboratory apparatus usage and safety, cell biology and cell reproduction, principles of genetics, biological change through time, classification, microbiology, structure, and function of plants and animals, structure and function of the human body, and ecology. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: N/A

### **2003340 Chemistry 1 (1 Credit)**

Chemistry I will provide opportunities for students to study the composition, properties, and changes associated with matter. Topics will include but not be limited to: classification and structure of matter, atomic theory, the periodic table, bonding, chemical formulas, chemical reactions, balanced equations, the behavior of gases, physical changes, acids, bases, and salts. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: N/A

### **2003310 Physical Science (1 Credit)**

Physics and chemistry, particularly mechanics, the laws of motion, energy, electricity, magnetism, the elements, molecules, atoms, sub-atomic particles, nuclear reactions, light, heat, the periodic table, organic chemistry, and biochemistry, are introduced. Laboratory activities are an integral part of this course.

Prerequisite: N/A

### **2003380 Physics (1 Credit)**

Physics will provide students with an in-depth study of the theories and laws governing the interaction of matter, energy, and the forces of nature. Topics will include but not be limited to kinematics, dynamics, energy, work, power, heat and thermodynamics, wave characteristics, light, electricity, magnetism, and nuclear physics. Virtual Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: Algebra 2

### **2000350 Anatomy and Physiology (1 Credit)**

The purpose of this course is to enable students to develop understanding of the relationships between the structures and functions of the human body. The content should include, but not be limited to, the following: implementation of scientific habits of mind, application of scientific knowledge, methodology, and historical context to solve problems, use of laboratory technologies, terminology, cells and tissues, homeostasis, human genetics, growth, and development, body composition, structure, and function, internal and external changes and responses, connections between anatomy, physiology, medicine, technology, society, and the environment

Prerequisite: Teacher Recommendation



# HIGH SCHOOL

## Science Courses

### **2000410 Zoology (1 Credit)**

Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures are an integral part of this course. The National Science Teachers Association (NSTA) recommends that at the high school level, all students should be in the science lab or field, collecting data every week. School laboratory investigations (labs) are defined by the National Research Council (NRC) as an experience in the laboratory, classroom, or the field that provides students with opportunities to interact directly with natural phenomena or with data collected by others using tools, materials, data collection techniques, and models (NRC, 2006, p. 3).

Prerequisite: Recommended for 11th Grade

## Social Studies Courses

### **2102335 Economics with Financial Literacy (.5 Credits)**

The grade 9-12 Economics course consists of the following content area strands: Economics and Geography. The primary content emphasis for this course pertains to the study of the concepts and processes of the national and international economic systems. Students will acquire understanding in currency, banking, and monetary policy, the fundamental concepts relevant to the major economic systems, the global market and economy, major economic theories and economists, the role and influence of the government and fiscal policies, economic measurements, tools, and methodology, financial and investment markets, and the business cycle.

Prerequisite: N/A

### **2105340 Philosophy (.5 Credits)**

The primary content emphasis for this course pertains to the study of the fundamental questions pertinent to all areas of human activity and inquiries. Content should include but is not limited to, an introduction to classical and modern philosophies, the fundamental principles of philosophical thought, such as semantics, logic, inductive and deductive reasoning, and social, political and religious philosophies.

Prerequisite: N/A

### **2107300 Psychology I (.5 Credits)**

Psychology I will help students acquire an understanding of human behavior, behavioral interaction, and the progressive development of individuals. Appropriate concepts and skills will be developed through the theories and methods of study employed by psychologists, human growth and development, self-concept development, adjustment, motivation and desire, intelligence, conditioning and learning, memory, personality and behavior, emotion and frustration, abnormal behavior, conformity, autonomy, alienation, stress, mental health and therapy.

Prerequisite: N/A

### **2108300 Sociology (.5 Credits)**

Through the study of sociology, students acquire an understanding of group interaction and its impact on individuals in order that they may have a greater awareness of the beliefs, values and behavior patterns of others. In an increasingly interdependent world, students need to recognize how group behavior affects both the individual and society.

Prerequisite: Recommended for 11th Grade



# HIGH SCHOOL

## Social Studies Courses

### **2106310 United States Government (.5 Credits)**

United States Government will provide students the opportunity to acquire an understanding of American government and political behavior. Content to be covered will include, but not be limited to, an analysis of those documents which shape our political traditions (the Declaration of Independence, the Constitution, and the Bill of Rights), a comparison of the roles of the three branches of government at the local, state, and national levels, an understanding of the evolving role of political parties and interest groups in determining government policy, how the rights and responsibilities of citizens in a democratic state have evolved and been interpreted, and the importance of civic participation in the democratic political process.

Prerequisite: Recommended for 10th Grade

### **2100310 United States History (1 Credit)**

American History will provide students with the opportunity to acquire an understanding of the chronological development of the American people by examining the political-economic, social, religious, military, scientific, and cultural events that have affected the rise and growth of the nation. Content to be covered will include, but not be limited to, an understanding of geographic-historic and time-space relationships, the synthesizing of American culture through the centuries, the origin of American ideals, the American colonial experience, the American Revolution and the Federal System, the Civil War as the solution to the secession issue, the technological and urban transformation of the country, and American foreign policy development.

Prerequisite: Recommended for 9th Grade

### **2109310 World History (1 Credit)**

World History will provide students the opportunity to acquire an understanding of the chronological development of civilization by examining the political, economic, social, religious, military, dynastic, scientific, and cultural events that have affected humanity. Specific content to be covered will include, but not be limited to, an understanding of geographic, historic and time-space relationships, a review of pre-history, the rise of civilization and cultural universals, the development of religion and the impact of religious thought, the evolution of political systems and philosophies, the development of nationalism as a global phenomenon, the origin and course of economic systems and philosophies.

Prerequisite: N/A

### **2105310 World Religions (.5 Credits)**

The primary content emphasis for this course pertains to the study of major world religious traditions of Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, and Taoism. Students will identify criteria upon which religious beliefs are based, analyze relationships between religious and social and political institutions, trace the major developments of the world's living religions, distinguish the similarities and differences among the world's major religious traditions, synthesize information and ideas from conflicting religious beliefs, and interpret the development of a society as reflected by its religious beliefs.

Prerequisite: N/A



# HIGH SCHOOL

## Fine Arts Courses

### **0100330 Art History and Criticism 1 Honors (1 Credit)**

The purpose of this course is to explore the role of art in history and culture through observation and analysis of significant works of art and architecture from Prehistory through the 16th century. Student historians investigate the societal context of works, considering traditional forms and conventions of representation, symbology, and the purposes for which the art was created. The course includes an introduction to the methodologies of art history and criticism, the study of the media and techniques used by artists from various cultures and time periods, and use of appropriate terminology in verbal and written analyses of artworks drawn from around the world. Student historians critique and compare works across time and cultures to develop an understanding of, and respect for, the visual arts as a chronicle of history, cultural heritage, and the human experience. This course may also incorporate hands-on activities and consumption of art materials.

Prerequisite: N/A

### **0400660 Theatre, Cinema and Film Production (1 Credit)**

In Theatre, Cinema, and Film Production, a one-credit course, students explore the elements of the film and cinematic techniques used by those who create movies. Students study the techniques in film that serve the story and articulate the theme. Students also prepare a comparative for theatre, film, and literature. Public performances may serve as a resource for specific instructional goals. Students may be required to attend or participate in technical work, rehearsals, and/or film production beyond the school day to support, extend and assess learning in the classroom.

Prerequisite: N/A





# HIGH SCHOOL

## Physical Education Courses

### **0800300 Health (.5 Credit)**

The purpose of this course is to produce health literate students that make sound decisions and take positive actions for healthy and effective living. The course is wellness-oriented and emphasizes responsible decision-making and planning for a healthy lifestyle.

Prerequisite: N/A

### **3026010 Health Opportunities through Physical Education (HOPE) (1 Credit)**

Developing physical skills and team sensibilities through physical education promotes active participation in home, school, and community learning and social activities, which, in turn, promotes participation in life. The content is intended to develop or ex-pand the student's understanding of Physical Activity, Components of Physical Fitness, Nutrition and Wellness Planning, Diseases and Disorders, Health Advocacy, First Aid/CPR, Alcohol, Tobacco, and Drug Prevention; Human Sexuality, including Abstinence and HIV; Cognitive Abilities, Lifetime Fitness, Movement, Responsible Behaviors and Values. The purpose of this course is to develop and enhance healthy behaviors that influence lifestyle choices and student health and fitness. Students will realize the full benefit of this course when it is taught with an integrated approach.

Prerequisite: N/A

### **1501300 Personal Fitness (.5 Credit)**

Personal Fitness provides students with opportunities to develop an individual optimal level of physical fitness, acquire knowledge of physical fitness concepts, and acquire knowledge of the significance of lifestyle on one's health and fitness. The content includes knowledge of the importance of physical fitness, assessment of the health-related components of fitness, health problems associated with inadequate fitness levels, application of biomechanical and physiological principles to improve and maintain fitness, safety practices and psychological values of fitness including stress management, and sound nutritional practices and consumer issues related to physical fitness.

Prerequisite: N/A





# HIGH SCHOOL

## World Languages Courses

### **0701320 French 1 (1 Credit)**

Introduces students to the target language and its culture. The student will develop communicative skills in all 3 modes of communication and cross-cultural understanding. Emphasis is placed on proficient communication in the language. An introduction to reading and writing is also included as well as culture, connections, comparisons, and communities.

Prerequisite: N/A

### **0701330 French 2 (1 Credit)**

Reinforces the fundamental skills acquired by the students in French 1. The course develops increased listening, speaking, reading, and writing skills as well as cultural awareness. Specific content to be covered is a continuation of listening and oral skills acquired in French 1. Reading and writing receive more emphasis, while oral communication remains the primary objective. The cultural survey of the target language-speaking people is continued.

Prerequisite: French 1

### **0708340 Spanish 1 (1 Credit)**

The purpose of this course is to introduce students to the target language and its culture and to develop communicative skills and cross-cultural understanding. The content will include beginning skills in listening and speaking with special attention to pronunciation. An introduction to reading and writing will be included, as well as the fundamentals of grammar and culture.

Prerequisite: N/A

### **0708350 Spanish 2 (1 Credit)**

The purpose of this course is to reinforce the fundamental skills acquired previously by the students. This course develops increased listening, speaking, reading, and writing skills as well as cultural awareness. The content will include an expansion of listening and oral skills. Reading and writing will receive more emphasis, while oral communication remains the primary objective. This course will continue the cultural survey of Spanish-speaking people.

Prerequisite: Spanish 1

### **0708400 Advanced Placement - Spanish Language and Culture (1 Credit)**

The purpose of this course is to develop oral and written fluency in the language. The content will include the requirements of the Advanced Placement program guidelines.

Prerequisite: Spanish 2





# HIGH SCHOOL

## English Honors

### **1001320 English 1 Honors (1 Credit)**

English 1 Honors promotes academic excellence in English language arts through the strands of the reading process, literary analysis, writing process, writing applications, communication, and information and media literacy. This course provides instruction in critical analysis of major literary genres. Composition instruction focuses upon using the writing process in creative, technical, and traditional academic modes in both timed and untimed settings. All stages of the writing process are addressed: pre-writing, drafting, revising, editing, and publishing. Formal speaking experiences are provided. Technology is incorporated into all aspects of the course.

Prerequisite: Teacher Recommendation

### **1001350 English 2 Honors (1 Credit)**

English 2 Honors promotes excellence in English language arts through the study of world literature. This course provides instruction in universal themes found in world literature as well as in the critical analysis of various genres in that literature. Composition instruction emphasizes the creative, technical, and traditional academic modes of writing through the writing process (prewriting, drafting, revising, editing, and publishing); frequent timed and untimed practice is provided. The study of language includes usage, mechanics, and other conventions of standard written English as they relate to students' writing. Formal and informal speaking opportunities are provided. Vocabulary study is done in conjunction with reading and literature. Technology is incorporated into all aspects of the course.

Prerequisite: English 1 Honors

### **1001380 English 3 Honors (1 Credit)**

This course promotes excellence in English language arts through enriched experiences through the strands of the reading process, literary analysis, writing process, writing applications, communication, and information and media literacy. Instruction includes frequent practice in writing various types of multi-paragraph essays, including documented papers; written and oral analysis of American literature representing the ethnic and cultural diversity of the American experience; and analysis of American dialects reflected in the literature. Reference skills and methods of summarizing are taught in the production of documented papers/projects. All phases of the writing process are utilized where appropriate (prewriting, drafting, revising, editing, and publishing). Formal and informal speech experiences are provided. Technology is incorporated into all aspects of the course.

Prerequisite: English 2 Honors

### **1001410 English 4 Honors (1 Credit)**

English Honors 4 promotes excellence in English language arts through enriched experiences in communication skills and instruction in the literature of Great Britain. Instruction will cover the written and oral analysis of major British literary works of various genres in relationship to cultural influences and to the development of the literary traditions of the English language. Writing assignments will develop students' abilities to interpret literature and analyze them critically. All phases of the writing process will be utilized where appropriate (prewriting, drafting, revising, editing, and publishing). Students will also extend their speaking, researching, and listening, skills. Language study should include vocabulary and grammar in the context of literature and writing and an overview of the history of the language as reflected in literature. Technology is incorporated into all aspects of the course.

Prerequisite: English 3 Honors



# HIGH SCHOOL

## English AP

### 1001420 Advanced Placement English Language and Composition (1 Credit)

The course provides a study of the semantic, structural, and rhetorical resources of the English language as they relate to the principles of effective writing. Examples of prose from various fields and periods serve as models of effective writing. This course provides a variety of writing opportunities that require the use of different styles and tones. Students develop individual writing styles adaptable to writing needs in college. Students are expected to take the Advanced Placement examination offered by the College Board.

Prerequisite: At least a B-Grade in most recent English course.

### 1001430 Advanced Placement English Literature and Composition (1 Credit)

This course involves students in the study and practice of writing and in the study of literature. Students learn to use the modes of discourse and to recognize the assumptions underlying various rhetorical strategies. Students acquire an understanding of the resources of the language and an understanding of the writer's craft through the study of poetry, drama, fiction, and expository prose. Students develop critical standards for the analysis of any literary work and increase their sensitivity to literature as shared experience. Students are expected to take the College Board examination for Advanced Placement English Composition and Literature.

Prerequisite: At least a B-Grade in most recent English course.





# HIGH SCHOOL

## Math Honors

### **1200320 Algebra 1 Honors (1 Credit)**

This course is a rigorous in-depth study of the topics of Algebra I designed to develop the algebraic concepts and processes that can be used to solve a variety of real-world mathematics problems. The content will include: structure and properties of the real number system; varied means for analyzing and expressing patterns, relations and functions; variables, algebraic expressions and polynomials; geometric concepts; set operations; dimensional analysis; data analysis concepts and techniques; and varied solution strategies, algebraic and graphic, for inequalities, linear and quadratic equations, and for systems of equations. Calculators and computers will serve as instructional tools in concept development. Credit in Algebra I Honors precludes credit in Algebra IA and Algebra IB, Algebra I, Applied Mathematics I and II, and Integrated Mathematics I and II.

Prerequisite: Teacher Recommendation.

### **1200340 Algebra 2 Honors (1 Credit)**

This course is a rigorous in-depth study of the topics of Algebra II with emphasis on theory, proof, and development of formulas, as well as their application. The content will include structure and properties of the complex number system; sequences and series; relations; functions and graphs; varied solution strategies for linear equations, inequalities, and systems of equations and inequalities; conic sections and their applications; quadratic, exponential, and logarithmic functions; and the Binomial Theorem. Calculators and computers will serve as instructional tools in concept development.

Prerequisite: Algebra I or Algebra I Honors and Teacher Recommendation.

### **1206320 Geometry Honors (1 Credit)**

This course is designed to give a rigorous in-depth study of geometry with emphasis on methods of proof and the formal language of mathematics. The content will include the following: structure of geometry; separation properties; angle concepts; triangles, quadrilaterals; proofs, perpendicularity, and parallelism in a plane and in space; similar polygons; circles and spheres; constructions; area and volume; coordinate geometry, and topology. Calculators and computers will serve as instructional tools in concept development.

Prerequisite: Algebra I and Teacher Recommendation

### **1202340 Pre-Calculus Honors (1.0 Credit)**

This course emphasizes conceptual and graphical understanding of functions. It reinforces critical thinking and keeps pace with the changes in mathematics and its applications. The content of this course includes the study of a variety of function types (polynomial, exponential, logarithmic, periodic, rational), as well as function transformations and function inverses, the Binomial Theorem, mathematical induction, sequences and series, combinatorics and probability, trigonometry, complex numbers, polar coordinates and topics at the onset of Calculus: limits and derivatives. The course provides students with the foundation necessary for the rigors of future mathematics courses, including Calculus. This course also prepares students well for the SAT Subject Test Mathematics Level 2. This course is fast-paced with coverage of Pre-Calculus topics in-depth, including problem-solving in most units. Since Honors Pre-Calculus is a college-level course, many of its topics extend beyond the K-12 Mathematics standards.

Prerequisite: Algebra 2 or equivalent



# HIGH SCHOOL

## Math AP

### 1210320 Advanced Placement Statistics (1 Credit)

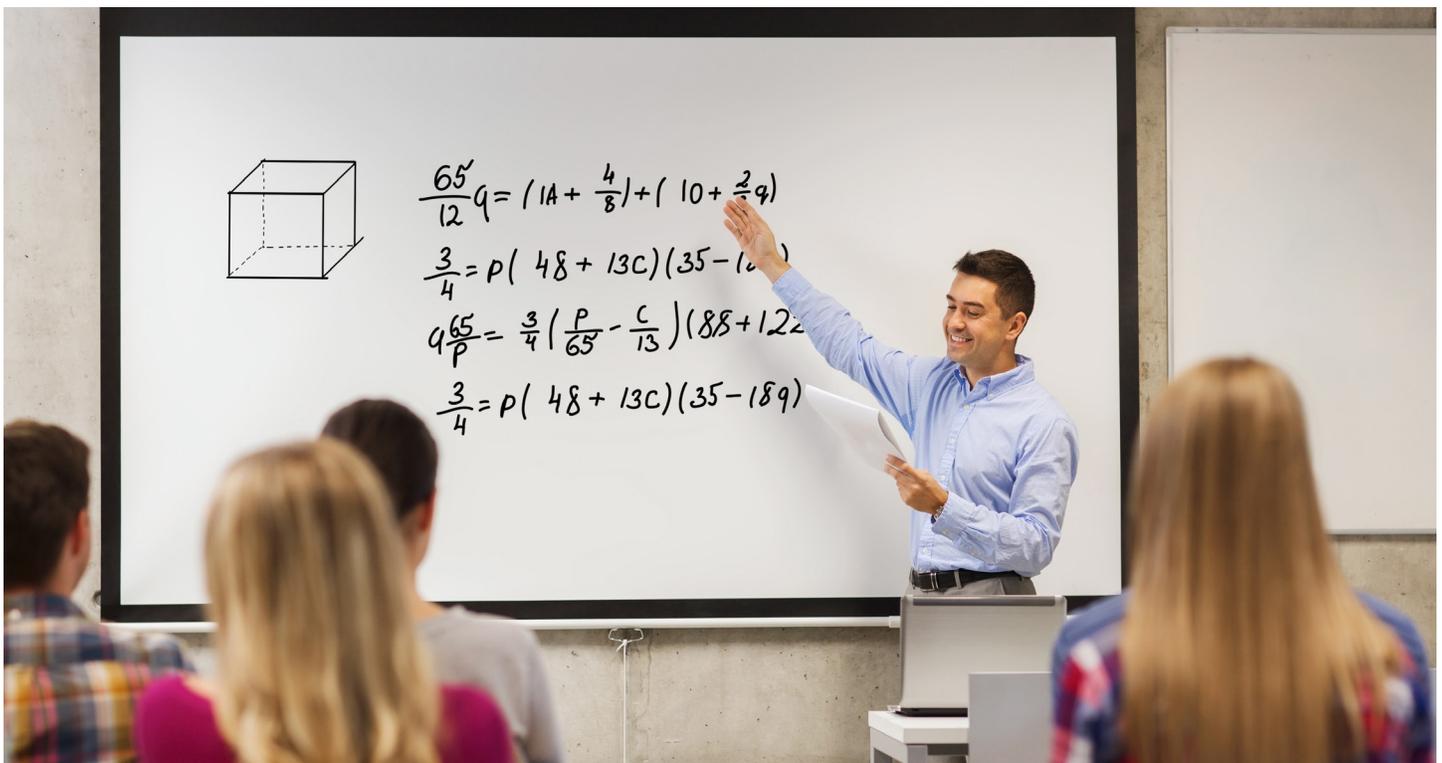
The purpose of this course is to offer students college-level mathematics under the guideline of the advanced placement pro-gram. The focus is on preparation for the statistics test given by the College Examination Board. Topics of study will include ex-ploring data, using measurement in planning a study, producing models using probability and simulation to anticipate patterns, and statistical interference. Calculators and computers will serve as instructional tools in concept development. The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclu-sions from data. Students are exposed to four broad conceptual themes: Exploring Data: Describing patterns and departures from patterns, Sampling and Experimentation: Planning and conducting a study, Anticipating Patterns: Exploring random phenomena using probability and simulation, Statistical Inference: Estimating population parameters and testing hypotheses.

Prerequisite: Math Analysis or Algebra II

### 1202310 Advanced Placement Calculus AB (1 Credit)

This course is designed to offer students college-level mathematics under the guidelines of the Advanced Placement Program. The focus is on preparation for the Calculus Level AB Test given by the College Examination Board in May. The study will begin by reviewing function definitions, absolute value, and elementary functions from prerequisites. Calculators and computers will serve as instructional tools in concept development. AP Calculus AB is a course designed to offer students college-level mathe-matics under the guidelines of the Advanced Placement Program. The student enrolled in this course will be expected to take the Advanced Placement Examination in Calculus AB. Download a complete course description from the College Board website.

Prerequisite: Algebra II, Geometry and Pre-Calculus with Trigonometry





# HIGH SCHOOL

## Science Honors

### **2000360 Anatomy and Physiology Honors (1 Credit)**

The purpose of this course is to enable students to develop an understanding of the relationships between the structures and functions of the human body. The content should include, but not be limited to, the following: implementation of scientific habits of mind, application of scientific knowledge, methodology, and historical context to solve problems, use of laboratory technologies, terminology, cells and tissues, homeostasis, human genetics, growth and development, body composition, structure and responses.

Prerequisite: Teacher Recommendation

### **2000320 Biology 1 Honors (1 Credit)**

Biology 1 Honors will provide opportunities to students for general exploratory experiences and activities in the fundamental concepts of life. Topics will include but not be limited to: the scientific method, laboratory apparatus usage and safety, biochemistry, cell biology, genetics, botany, zoology, human anatomy and physiology, and ecological relationships. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: Teacher Recommendation

### **2003350 Chemistry 1 Honors (1 Credit)**

Chemistry I Honors will provide students with an opportunity to study the composition, properties, and changes associated with matter. Topics will include but not be limited to heat, changes of matter, atomic structure, bonding, the periodic tables, formulas, equations, mole concept, gas laws, reactions, solutions, equilibrium systems, and oxidation-reduction reactions. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: Teacher Recommendation

### **2003390 Physics 1 Honors (1 Credit)**

Physics I Honors will provide students with an in-depth study of the theories and laws governing the interaction of matter, energy, and the forces of nature. Topics will include but not be limited to kinematics, dynamics, energy, work, power, heat and thermodynamics, wave characteristics, light, electricity, magnetism, and nuclear physics. Virtual Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: Algebra 2

## Science AP

### **2000340 Advanced Placement Biology (1 Credit)**

Advanced Placement Biology will provide students with a college-level course in biology and will prepare the student to seek credit and/or appropriate placement in college biology courses. Topics will include but not be limited to molecular and cellular biology, organism biology, and population biology. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: Biology



# HIGH SCHOOL

## Science AP

### **2003370 Advanced Placement Chemistry (1 Credit)**

The purpose of this course is to study the development and application of chemistry principles and concepts. Includes the study of atomic structure and theory, the chemical properties of matter, chemical reactions, and energy changes. In addition, the student is given the opportunity to learn from detailed laboratory exercises, special projects, and research. Science, technology, and societal issues are integrated throughout the course.

Prerequisite: Chemistry

### **2001380 Advanced Placement Environmental Science (1 Credit)**

Advance Placement Environmental Science provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course draws upon various disciplines, including geology, biology, environmental studies, environmental science, chemistry, and geography in order to explore a variety of environmental topics. Topics explored include natural systems on Earth; biogeochemical cycles; the nature of matter and energy; the flow of matter and energy through living systems; populations; communities; ecosystems; ecological pyramids; renewable and nonrenewable resources; land use; biodiversity; pollution; conservation; sustainability; and human impacts on the environment.

Prerequisite: 1 year of Life Science and 1 year of Physical Science, 1 year of Algebra





# HIGH SCHOOL

## Social Studies Honors

### **2100320 United States History Honors (1 Credit)**

American History Honors will provide students with the opportunity to acquire an in-depth and comprehensive understanding of the chronological development of the American people by examining the political, economic, social, religious, military, scientific, and cultural events that have affected the nation. Implicit in this is an understanding of the historical method, the inquiry process, historical reasoning and interpretation, and the issues of external and internal validity.

Prerequisite: Teacher Recommendation

### **2102345 Economics with Financial Literacy Honors (.5 credit)**

Students will acquire understanding in currency, banking, and monetary policy, the fundamental concepts relevant to the major economic systems, the global market and economy, major economic theories and economists, the role and influence of the government and fiscal policies, economic measurements, tools, and methodology, financial and investment markets, and the business cycle. Students will develop the critical skills of analysis, synthesis, and evaluation in a more rigorous and reflective academic setting. Students are empowered to perform at higher levels as they engage in the following: analyzing historical documents and supplementary readings, working in the context of thematically categorized information, becoming proficient in note-taking, participating in Socratic seminars/discussions, emphasizing free-response and document-based writing, contrasting opposing viewpoints, solving problems, etc. Students will develop and demonstrate their skills through participation in a capstone and/or extended research-based paper/project (e.g., history fair, participatory citizenship project, mock congressional hearing, projects for competitive evaluation, investment portfolio contests, or other teacher-directed projects).

Prerequisite: Teacher Recommendation

### **2109320 World History Honors (1 Credit)**

World History Honors will provide students the opportunity to acquire a comprehensive understanding of the past in terms of what has been interpreted about change or process as it related to the development of humanity. This is done by analyzing the political, economic, social, religious, military, dynastic, scientific, and cultural events that have shaped and molded humanity. Implicit in this is an understanding of the historical method, the inquiry process, historical reasoning, and interpretation.

Prerequisite: Teacher Recommendation

## Social Studies AP

### **2100330 Advanced Placement United States History (1 Credit)**

Advanced Placement American History will provide students with the opportunity to develop the analytic skills and factual knowledge necessary to deal critically with the problems, content, and materials of American historic development. Integral components of this course will include, but not be limited to, the formation of generalizations from primary sources in history, the synthesis and evaluation of information, the development of a set of criteria for judging proposed courses of action in terms of actual and projected consequences, the comparison of eras with similar trends, and analysis of the impact of major historical figures and groups on American and world events, the detection of bias in making conclusions, and the emergence of patterns in historical development.



# HIGH SCHOOL

## Social Studies AP

### **2106420 Advanced Placement United States Government and Politics (.5 credit)**

This course will give students a critical perspective on politics and government in the United States. It requires familiarity with the various institutions, groups, beliefs, and ideas that make up the American political reality. Specific content to be covered will include, but not be limited to, an understanding of federalism and the separation of powers, the development of the constitution, the process of politics, the nature of public opinion, the role of political parties and interest groups, the major formal and informal institutional arrangement of powers, and the development of civil liberties and civil rights.

Prerequisite: United States History

### **2102370 Advanced Placement Macroeconomics (.5 credit)**

Advanced Placement Macroeconomics gives students an opportunity to analyze the worldwide effects of economic activities and their impact on taxation, monetary policy, the balance of trade issues, government policy, exchange rates, and similar “big picture” concepts. Students will understand economic concepts, vocabulary, and statistical interpretation of economic data.

Prerequisite: Algebra II or Math Analysis

### **2102360 Advanced Placement Microeconomics (.5 credit)**

AP\* Microeconomics studies the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, at different times. They’ll also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions. Microeconomics studies the economic way of thinking, understanding the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy. The equivalent of a 100-level college course, AP Microeconomics prepares students for the AP exam and for further study in business, history, and political science.

Prerequisite: Algebra I

### **2107350 Advanced Placement Psychology (.5 credit)**

AP\* Psychology provides an overview of current psychological research methods and theories. Students will explore the therapies used by professional counselors and clinical psychologists and examine the reasons for normal human reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. They will study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of an introductory college-level survey course, AP Psychology prepares students for the AP exam and for further studies in psychology or life sciences.

Prerequisite: Teacher Recommendation



# HIGH SCHOOL

## Academy of Criminal Justice

**This online criminal justice career path is designed to help prepare students to enter the criminal justice field in a variety of first-tier positions. Students will be exposed to the foundational areas of the discipline: investigation and law enforcement.**

### **8918010 Criminal Justice Operations (1 Credit)**

This course is designed to introduce students to the fields of law enforcement, the court system, and the correctional system. The content includes career opportunities in these fields, the court system, the correctional system, interpersonal and communication skills, and employability skills.

Prerequisite: N/A

### **2106380 Law & Order: Introduction to Legal Studies (.5 Credit)**

The primary content for the course pertains to the examination of the American legal system and the nature of specific rights granted under the United States Constitution. Content should include, but is not limited to, the historical antecedents of laws and the basis for the creation of laws, the background, principles and applications of the United States Constitution, the rights protected by the Constitution and precedent-setting cases related to these rights, the process for enacting criminal laws at the state and local levels, the stages of the criminal justice system, the government and private agencies which provide services to individuals accused of crimes, the citizen's role in the legal system, the role of women and diverse cultural groups within the justice system, and careers in the justice system.

Prerequisite: N/A

### **2002480 Forensic Science 1 (1 Credit)**

This course focuses on the skills and concepts behind crime scene investigation and forensic science. Whether you desire to be a crime scene investigator, forensic pathologist, or some other medical scientist, this course will help you hone your investigative skills and review a wide range of science concepts. You will review physics, chemistry, anatomy, cell biology, environmental science and computer science in the process of learning about forensic science. You will engage in lectures, labs, case studies, on-line activities, and professional visits as part of this course. This course should help you see how science is used to answer questions rather than just learning science concepts. It should be a very enjoyable course

Prerequisite: N/A





# HIGH SCHOOL

## Academy of Business & Entrepreneurship

**Managers play a critical role in shaping America's future. Businesses need managers who are effective, creative, disciplined and well educated. The Business Management career choices give students the career skills to gain an understanding in the many are**

### **7980040 Entrepreneurship: Starting Your Business (1 Credit)**

The purpose of this course is to prepare students with disabilities to pursue entrepreneurship/self-employment. Students will acquire skills needed to explore their potential as entrepreneurs and develop the necessary skills to plan and operate a business with support and assistance.

Prerequisite: N/A

### **8827110 Marketing Essentials (1 Credit)**

This course is designed to prepare students for employment in various sales, customer service, advertising and promotion, and first-line supervisory positions in wholesale, retail and service areas. Students will prepare to perform marketing and management functions and tasks as they relate to selling and retailing, e-commerce, sports and entertainment, and hospitality and tourism industries. Students will experience application of the following Florida Math Standards: number sense data analysis and probability, patterns and algebra, discrete math, and logic.

Prerequisite: N/A

## Academy of Internet Technologies

**New Media specialists are an exceptional group of contemporary students. They must possess deep and far-ranging skills in their fields of concentration along with a broad understanding of the social and economic impact of all cutting-edge new media technology.**

### **82071100 Web Design with Dreamweaver (1 Credit)**

This course is designed to provide a basic overview of the internet, intranet, and the World Wide Web (www). The content includes operating systems; basic html commands; navigation of the internet, intranet, and web; and web page design.

Prerequisite: N/A

### **5002000 Introduction to Computers (1 Credit)**

The purpose of this course is to enable students to develop basic skills in computer fundamentals, keyboarding, computer applications, research tools, and educational applications. Within appropriate developmental guidelines, the content of this course should enable students to: Understand computer-specific terminology, Demonstrate basic knowledge of computer technology, function, and application, Demonstrate keyboard proficiency, Use the computer to integrate all areas of the curriculum, Create original works using multi-media tools, Use computer programs and educational software to reinforce their learning, Undertake research and expand their critical thinking skills, Understand the importance of cyber safety and computer etiquette.

Prerequisite: N/A



# HIGH SCHOOL

## Academy of Health Sciences

**“What do I want to do when I graduate?” Is a question most high school students face at one time or the other. And for some, the American High School Health Science Careers program helps answer that ques-tion.**

### **8417106 Orientation to Nursing (.5 Credit)**

The purpose of this course is to acquaint students with career opportunities and job requirements in the field of nursing which will enable students to consider career objectives and interests. Reinforcement of basic skills in English, mathematics, and science appropriate for the job preparatory programs occurs through vocational classroom instruction and applied laboratory procedures or practice. Special projects that are related to nursing care provided, including role-playing activities of daily living as a handi-capped individual, developing an emergency evacuation plan for their own home, menu planning, and feeding techniques, apply-ing slings, use of wheelchairs, and creating their own nursing career plan. Team teaching and integration of the curriculum with English, Math’s and Science is encouraged.

Prerequisite: N/A

### **8111510 Veterinary Science: The Care of Animals (.5 Credit)**

This course is designed to develop competencies in areas such as the history of the animal industry; applied scientific and tech-nological concepts; safety; terminology; careers; breed identification; animal care and human relations skills.

Prerequisite: N/A

### **0608190 Health Sciences: The Whole Individual (1 Credit)**

Globally, we face new viruses and diseases. Providing a healthcare delivery system to meet dynamic changes is of paramount importance. This course equips students with knowledge to help address these challenges. Introduction to different health sci-ence disciplines, will enlighten students to explore career fields that are challenging, interesting, and rewarding. In this course, students will examine various fields within health sciences, including pharmaceutical services, clinical medicine, and biotechnolo-gy. Student will explore the importance of diagnostics and research in the identification and treatment of diseases.

Prerequisite: N/A





# HIGH SCHOOL

## Elective Courses

### **2101300 Anthropology I: Uncovering Human Mysteries (.5 Credit)**

The anthropology course consists of the following content area strands: American History, World History, Geography, Humanities, Civics, and Government. The primary content emphasis for this course pertains to the study of the differences and similarities, both biological and cultural, in human populations. Students recognize the characteristics that define their culture and gain an appreciation for the culture of others. Content should include but is not limited to, human biological and cultural origins, adaptation to the physical environment, the diversity of human behavior, the evolution of social and cultural institutions, patterns of language development, family and kinship relationships, and the effect of change on cultural institutions.

### **2001350 Astronomy: Exploring the Universe (.5 Credit)**

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.

Prerequisite: N/A

### **8905100 Cosmetology: Cutting Edge Styles (1 Credit)**

Students will explore career options in the field of cosmetology. Research into some of the common techniques used in caring for hair, nails, and skin in salons, spas, and other cosmetology-related businesses will also be presented.

Prerequisite: N/A.

### **1300300 Music Appreciation: The Enjoyment of Listening (1 Credit)**

Students learn how music is constructed and developed, and acquire a basic understanding of the structural, technical, and historical elements of music. Student theorists develop basic ear-training, keyboard, and functional singing skills, and engage in the creative process through individual and collaborative projects. Public performances may serve as a resource for specific instructional goals. Students may be required to attend one or more performances outside the school day to support, extend, and assess learning in the classroom.

Prerequisite: N/A

### **1400300 Peer Counseling (.5 Credit)**

The purpose of this course is to enable students to develop basic knowledge and skills in communication, meeting human needs, and conflict resolution. The content should include the following: Demonstrate knowledge of the functions and responsibilities of peer facilitators (e.g., listening, confidentiality, team building, conflict resolution, and intervention), Demonstrate awareness of varied behavioral responses to situational, environmental, and chemical elements; and the impact of subsequent decision-making on self and others, Demonstrate knowledge of basic human needs (e.g., food, clothing, shelter, recognition, development, security, identity) and the ways in which they can be met while developing group cohesion, Demonstrate the use of basic facilitative communication skills (e.g., listening, questioning, feedback, paraphrasing, nonverbal communication, nonjudgmental response), Identify own feelings and needs and communicate them in a positive way, Demonstrate awareness of leadership styles (e.g., authoritarian, democratic, permissive), Demonstrate awareness of methods for dealing with conflict (e.g., communication, assertion, avoidance, aggression) and steps to resolution (i.e., set rules, gather perspectives, identify needs and goals, create and evaluate options, and generate agreement), Make inferences and justify conclusions from sample surveys, experiments, and observational studies.

Prerequisite: N/A



# HIGH SCHOOL

## Elective Courses

### **1007300 Public Speaking (1 Credit)**

The purpose of this course is to develop students' beginning awareness, understanding, and application of language arts as it applies to oral communication concepts and strategies in a variety of given settings.

Prerequisite: N/A

### **8806010 Fashion & Interior Design (0.5 Credit)**

Do you have a flair for fashion? Are you constantly redecorating your room? If so, the design industry might just be for you! 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. In addition, you'll develop the essential communication skills that build success in any business. By the end of the course, you'll be well on your way to developing the portfolio you need to get your stylishly clad foot in the door of this exciting field.

Prerequisite: N/A

### **5632480 Gothic Literature: Monster Stories (1 Credit)**

From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This course will focus on the major themes found in Gothic literature and demonstrate how the core writing drivers produce, for the reader, a thrilling psychological environment. Terror versus horror, the influence of the supernatural, and descriptions of the difference between good and evil are just a few of the themes presented. By the time students have completed this course, they will have gained an understanding of and an appreciation for the complex nature of dark fiction.

Prerequisite: N/A

### **8800510 Culinary Arts (1 Credit)**

This course covers the history of the foodservice industry and careers in that industry. Also covered are safety in the workplace; employability skills; leadership/teamwork skills; care and use of commercial culinary equipment; basic food science; basic nutrition; and following recipes in food preparation labs.

Prerequisite: N/A

### **8201310 Digital Photography 1 (1 Credit)**

This course provides competencies in photographic history, the production process, intellectual property rights, camera systems, support equipment, basic photography and workflow applications.

Prerequisite: N/A

### **M899400 Sports & Entertainment Marketing (1 Credit)**

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Marketing, Sales and Service career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Marketing, Sales and Service career cluster. The purpose of this program is to prepare students for employment or advanced training in the sport, recreation, and entertainment marketing and sales industry. The content includes, but is not limited to, employability skills; selling techniques; public relations and publicity; event planning and execution; and licensing, sponsorship, and endorsements.

Prerequisite: N/A



# HIGH SCHOOL

## Elective Courses

### **1009320 Introduction to Creative Writing (0.5 Credit)**

The purpose of this course is to enable students to develop and use grade 9-10 writing and language skills for creative expression in a variety of literary forms. Studying and modeling a variety of genres will be emphasized at this level of creative writing.

Prerequisite: N/A

### **1006375 Introduction to Social Media: Our Connected World (0.5 Credit)**

The purpose of this course is to enable students to develop fundamental skills in the use of social media across print, multimedia, web, and broadcast platforms, including ethical and legal uses.

Prerequisite: N/A

### **1386760 Stress Management (1 Credit)**

Introduces the causes, sources, and effects of stress (physiological, psychological, emotional, cognitive, and intrapersonal/interpersonal) from a personal and academic perspective. Facilitates application of tools and techniques to identify, prevent, and manage stressors to improve academic success.

Prerequisite: N/A

### **1549579 Social Problems I: A World In Crisis (0.5 Credit)**

War, crime, poverty, global warming, healthcare, effects of media, and more. Explore some of the biggest challenges facing our world today and what led to these social problems. What effects do they have on our lives and societies? What possible solutions exist for solving them? Discover what measures you can take to tackle these issues head-on and start to develop your plan of action.

Prerequisite: N/A

### **1547655 Social Problems II: Crisis, Conflicts & Challenges (0.5 Credit)**

Sometimes our world is filled with problems. Explore more of the challenges we face as individuals and as a global society and learn what we can do to reduce the effects of these conflicts and problems. From drug abuse to terrorists to homelessness and obesity, we can better face and solve these problems when we have a deeper understanding of their causes and influences on our lives.

Prerequisite: Social Problems I

### **0400660 Theatre, Cinema and Film Production (1 Credit)**

In Theatre, Cinema, and Film Production, a one-credit course, students explore the elements of film and cinematic techniques used by those who create movies. Students study the techniques in film that serve the story and articulate the theme. Students also prepare a comparative for theatre, film, and literature. Public performances may serve as a resource for specific instructional goals. Students may be required to attend or participate in technical work, rehearsals, and/or film production beyond the school day to support, extend, and assess learning in the classroom.

Prerequisite: N/A



# HIGH SCHOOL

## Career Technical Education

### **Architectural Design I (1 Credit)**

In this course, students will learn various concepts used in the design and architecture field. They will gain an understanding of basic architectural and civil drawings as well as prepare for the Autodesk® Certified User certification in AutoCAD exam. In addition to learning fundamental architectural drawing concepts like creating site plans, floor plans, and electrical plans, students will learn functions of Computer-Aided Drafting (CAD). CAD functions build on the foundation of architectural drawing, using specialized tools for enhancement, layout, and scale. Students will review the essentials of civil drawings including the interpretation and development of topographical illustrations. To round out the course, students will prepare computer-aided drawings to demonstrate utilizing software to perform activities such as drawing site plans, roof plans, and wall sections. Finally, students will be provided an overview of the requirements, structure, and preparation techniques for the Autodesk® Certified User certification in AutoCAD exam.

Prerequisite: N/A

### **Building Maintenance Technology II (1 Credit)**

The Building Maintenance Technology II course will focus on construction components, masonry skills, and OSHA. Students will learn about the various masonry and concrete skills as well as safety measures. Some activities will focus on the real-world application of learned skills with hands-on components. Students will learn about erecting, plumbing, and bracing in relation to concrete as well as laying masonry units. Finally, students will learn important science skills for the construction industry and prepare for OSHA 30-hour Construction certification exam.

Prerequisite: N/A

### **LEED Green Associate (1 Credit)**

This course introduces students to the LEED process. LEED, or Leadership in Energy and Environmental Design, is the global standard for green building certification. Throughout the course, students will gain an understanding of the various components of green building. The theme of sustainability and sustainable construction is woven throughout each module both in terms of physical environment and as it pertains to LEED certification. Additionally, this course prepares student for the LEED Green Certified Associate certification exam.

Prerequisite: N/A

### **Adobe Illustrator (1 Credit)**

This course introduces students to Adobe Illustrator and prepares them to obtain the Adobe Certified Professional Certification for Illustrator. Students will get an insight into what it is like working in the graphic design industry. Students will learn everything from absolute basics like navigating Illustrator to performing complex tasks like managing colors, drawing, creating illustrations, and much more. The course contains guided video tutorials, hands-on projects, and step-by-step resources that help students learn how to work in Illustrator.

Prerequisite: N/A

### **Adobe InDesign (1 Credit)**

This course introduces students to the world of Adobe InDesign and prepares them to obtain the Adobe Certified Professional Certification for InDesign. Students will gain insight into what it is like working in the print and digital media publishing industry. With 10 modules, students will learn everything from absolute basics like navigating InDesign to performing complex tasks like creating multi-page documents, applying effects, and even creating original artwork. The course contains guided tutorials, do-it-yourself projects, and great resources that will help students practice and learn how to work in InDesign.

Prerequisite: N/A



# HIGH SCHOOL

## Career Technical Education

### **Adobe Photoshop (1 Credit)**

This course prepares students to demonstrate expertise in Adobe's Photoshop software and prepares them to obtain the Adobe Certified Professional Certification for Photoshop. Students will learn through engaging and interactive content, projects, and practice exam items aligned to the learning objectives outlined by Adobe's exam specifications. Students will leave this course with career-ready, real-time skills in one of the most popular software programs in the world!

Prerequisite: N/A

### **Adobe Premiere Pro (1 Credit)**

This course introduces students to the world of Adobe Premiere Pro. Students will get an insight into the video design and production industry. Over 7 modules, students will progress from absolute basics like navigation to performing complex tasks like editing videos, applying filters and effects, and even creating original artwork. The course contains guided tutorials, engaging projects, and great resources that will help students practice and learn how to work in Premiere Pro. This course also prepares students for the Adobe Certified Professional (ACP) Certification Exam on Premiere Pro.

Prerequisite: N/A

### **Microsoft Excel (1 Credit)**

This course introduces students to the world of Microsoft Excel. Students will get an insight into the use of the product within the business setting. Over 8 modules, students will learn everything from absolute basics like navigating Microsoft Excel to performing complex tasks like formulas and functions. This course prepares students for the Microsoft Office Associate: Microsoft Excel Certification.

Prerequisite: N/A

### **Microsoft Word (1 Credit)**

This course introduces students to Microsoft Word. Students will gain insights into the features and capabilities of this essential software within personal, educational, and business settings. Over 11 modules, students progress from absolute basics like navigation to performing complex tasks like graphic elements and collaboration. This course prepares students for the Microsoft Office Associate Microsoft Word Certification.

Prerequisite: N/A

### **Social Media Business Marketing (1 Credit)**

Whether it's posting pictures, videos, or interacting in the metaverse, today's students who aspire to apply their social media skills to business marketing must be prepared! This course on Social Media Business Marketing provides them with the foundational knowledge of social media technology and marketing principles. The course begins with an introduction to Social Media platforms and then goes in-depth into the marketing and advertising strategies used to support a company's social media strategy and campaigns. Through activities and projects, students will gain firsthand knowledge of this exciting field. This course also prepares students for the Social Media Strategist certification.

Prerequisite: N/A



# HIGH SCHOOL

## Career Technical Education

### Early Childhood Education I (1 Credit)

The Early Childhood Education course is designed to provide an overview of the expectations and roles of the early childhood educator. The course provides details about childhood development, health, nutrition, and guidance strategies to help students understand the exciting and unique opportunities that a career in early childhood education can offer. The course is intended to prepare students for challenges they may face, but to emphasize the rewards of being able to influence the life of a young child. The ability to offer support to children as they learn, and grow is a point that is highlighted throughout each lesson.

Prerequisite: N/A

### Early Childhood Education II (1 Credit)

The Early Childhood Education II Course is designed to provide an overview of the professional expectations of being an early childhood educator. Throughout the course, students will learn about what it means to be a professional, including the significance of professional development in any educational role. They will review observational methods and the history of education in the United States, with a focus on early childhood and school-age programs. They will spend a significant portion of the course learning about the importance of Developmentally Appropriate Practice (DAP) and how to implement these strategies. Designing physical, social, and temporal environments will also be a major focus of the course, as will developing relationships with families and communities to strengthen their position and knowledge. Additionally, this course will prepare students for the Child Development Associate (CDA) certification exam.

Prerequisite: N/A

### Java SE 8 Associate (1 Credit)

The Java SE 8 course is designed to provide preparation for the Oracle Certified Associate (OCA) exam. Throughout the course, students will learn about Java from the basics to string builder methods. They will spend a significant portion of the course learning about the basics of Java, data types, operators, arrays, loop constructs, encapsulation, inheritance, exceptions, and API.

Prerequisite: N/A

### Networking (1 Credit)

The Networking course identifies the key principles of Networking in today's connected world. From network fundamentals and componentry to automation and programming, students learn the details of network access, connectivity, and security essentials. Through engaging interactivities, simulations, and projects, students will explore these networking concepts to further their career potential in this field. This course also prepares students for the Cisco Certified Network Associate (CCNA) certification exam.

Prerequisite: N/A

### Project Management (1 Credit)

The Project Management course is intended to identify the key components of a career as a project manager. Students will re-view the basics in project management terminology, such as designating distinctions among projects, products, programs, and portfolios. They will delve into concepts like managing deliverables and creating engaging relationships with stakeholders. The primary components of project planning will be laid out and described in detail. Students will explore teams and organizational structures. They will discover project management tools and innovation being used in the industry. Overall, they will develop a greater understanding of the mechanisms that are in place to effectively carry out projects of any size through specific project management techniques.

Prerequisite: N/A



# HIGH SCHOOL

## Career Technical Education

### Drones: Remote Pilot (1 Credit)

This course prepares students to take the Federal Aviation Administration (FAA) Part 107 exam, also known as the Unmanned Aircraft General – Small (UAG) exam, which is essential to becoming a commercial drone pilot. The field of unmanned aerial vehicles is growing rapidly, as the opportunities to use them for search and rescue, photography, recreation, inspection, and many others continue to multiply. Students will learn the critical facts to prepare for the test's topics, which include: regulations, air-space & requirements, weather, loading & performance, and operations. The course will conclude with a look at the most promising careers in the field of drones.

Prerequisite: N/A





# HIGH SCHOOL

## Virtual Reality

**Stimulating, immersive, and transformative learning with American High School. American High School sets the standard for virtual reality learning by transforming the way we deliver education to our students. Virtual Reality education has transformed the**

### English VR

#### **1001310 -1 VR English 1 (1 Credit)**

This English 1 course is an innovative and interactive course that will offer you fully immersive learning, using virtual reality. English 1 provides instruction in the Language Arts strands of the reading process, literary analysis, writing process, writing applications, communication, and information and media literacy. It offers instruction in reading and vocabulary strategies necessary for comprehension of printed materials; research; the writing of effective paragraphs and multi-paragraph papers, with emphasis upon all stages of the writing process is timed and untimed assessments (prewriting, drafting, revising, editing, publishing); speech instruction including formal and informal presentations; evaluation of mass media; the analysis of genres and the study of language in conjunction with writing, concentrating on conventions of grammar, usage, and mechanics.

Prerequisite: Recommended for 9th Grade

#### **1001340 -1 VR English 2 (1 Credit)**

This English 2 course is an innovative and interactive course that will offer you fully immersive learning, using virtual reality. English 2 provides instruction in the Language Arts strands of the reading process, literary analysis, writing process, writing applications, communication, and information and media literacy. Content includes instruction in reading literature and in vocabulary strategies necessary to comprehend printed materials; the writing of essays for various purposes and audiences, using literary and nonliterary subjects; untimed and timed writings, utilizing all elements of the writing process where appropriate (prewriting, drafting, revising, editing and publishing); emphasis of applicable research; analysis of selections found in world literature; study of grammar, mechanics, usage and other conventions of standard written English in conjunction with writing; study of mass media, including analysis of propaganda and persuasion techniques; and instruction in speech, including analysis of effective techniques in oral presentations. Technology is incorporated into all aspects of the course.

Prerequisite: English 1





# HIGH SCHOOL

## Social Studies VR

### **2100310 -1 VR United States History (1 Credit)**

This United States History course is an innovative and interactive course that will offer you fully immersive learning, using virtual reality. United States History will provide students with the opportunity to acquire an understanding of the chronological development of the American people by examining the political-economic, social, religious, military, scientific, and cultural events that have affected the rise and growth of the nation. Content to be covered will include, but not be limited to, an understanding of geographic-historic and time-space relationships, the synthesizing of American culture through the centuries, the origin of American ideals, the American colonial experience, the American Revolution and the Federal System, the Civil War as the solution to the secession issue, the technological and urban transformation of the country, and American foreign policy development.

Prerequisite: Recommended for 9th Grade

### **2109310-1 VR World History (1 Credit)**

This World History course is an innovative and interactive course that will offer you fully immersive learning, using virtual reality. World History will provide students the opportunity to acquire an understanding of the chronological development of civilization by examining the political, economic, social, religious, military, dynastic, scientific, and cultural events that have affected humanity. Specific content to be covered will include, but not be limited to, an understanding of geographic, historic and time-space relationships, a review of pre-history, the rise of civilization and cultural universals, the development of religion and the impact of religious thought, the evolution of political systems and philosophies, the development of nationalism as a global phenomenon, the origin and course of economic systems and philosophies.

Prerequisite: N/A

## Science VR

### **2000350-1 VR Anatomy and Physiology (1 Credit)**

This Biology course is an innovative and interactive course that will offer you fully immersive learning, using virtual reality. Biology 1 will provide opportunities to students for general exploratory experiences and activities in the fundamental concepts of life. Topics will include but not be limited to: the scientific method, measurements, laboratory apparatus usage and safety, cell biology and cell reproduction, principles of genetics, biological change through time, classification, microbiology, structure, and function of plants and animals, structure and function of the human body, and ecology. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: N/A

### **2000310-1 VR Biology 1 (1 Credit)**

This Chemistry course is an innovative and interactive course that will offer you fully immersive learning, using virtual reality. Chemistry I will provide opportunities for students to study the composition, properties, and changes associated with matter. Topics will include but not be limited to: classification and structure of matter, atomic theory, the periodic table, bonding, chemical formulas, chemical reactions, balanced equations, the behavior of gases, physical changes, acids, bases, and salts. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus, and safety are an integral part of this course.

Prerequisite: N/A



# HIGH SCHOOL

## Mathematics VR

### 1200310-1 VR Algebra I (1 Credit)

This Algebra course is an innovative and interactive course that will offer you fully immersive learning, using virtual reality. This course is designed to continue the study of algebra and to provide the foundation for applying these skills to other mathematical and scientific fields. The content will include: structure and properties of the complex number system; sequences and series; relations; functions and graphs; varied solution strategies for linear equations, inequalities, and systems of equations and inequalities; quadratic, exponential, and logarithmic functions; and their applications; data analysis; reinforcement of geometric concepts, and probability. Calculators and computers will serve as instructional tools in concept development.

Prerequisite: Algebra I or Algebra I Honors

### 1206310-1 VR Geometry (1 Credit)

This Geometry course is an innovative and interactive course that will offer you fully immersive learning, using virtual reality. This course is designed to strengthen and extend the student's knowledge of algebraic and trigonometric concepts and to prepare the student for calculus. The content will include mathematical induction, symbolic logic, Boolean and matrix algebra, probability and statistics, elementary functions and limits. Calculators and computers will serve as instructional tools in concept development.

Prerequisite: Algebra II (Algebra II Honors) and Geometry (Geometry Honors)





# HIGH SCHOOL

## Career Technical Education VR

### **Biotechnology (1 Credit)**

This Biotechnology course is an innovative and interactive course that will prepare you for a career in the field of biotechnology. This competency-based course is designed to teach you about career paths, research, data analysis, laboratory safety, and the use of laboratory equipment in the field of biotechnology. Using virtual reality, you demonstrate your knowledge of the laboratory equipment by exploring the use of micropipettes, serological pipettes, and spectrophotometers. Upon completion of this course you will be equipped with work related knowledge and the skills necessary for careers in the biotechnology, and you will earn a digital badge in biotechnology, and will be better prepared for the Biotechnology Certification Exam.

Prerequisite: N/A

### **The Art of Taekwondo Yellow Belt (1 Credit)**

This Art of Taekwondo Yellow Belt course is an innovative and interactive course that will prepare you for your yellow belt. In the course you will learn extraordinary kicking, striking, blocking, offensive and defensive choreograph movements, discipline, self improvement and much more.

Prerequisite: N/A

### **Carpentry (1 Credit)**

This Carpentry course is an innovative and interactive course that will prepare you for a career in the field of carpentry. This competency-based course is designed to provide you with a solid foundation in carpentry. You will engage in virtual reality and interactive videos designed to teach you how to use basic measuring tools, hand tools, and machines commonly used in carpentry to construct basic projects. Upon completion of this course you will be equipped with work related knowledge and the skills necessary for careers in the carpentry, and you will earn a digital badge in carpentry, and will be better prepared for the Carpentry Certification Exam.

Prerequisite: N/A

### **Coding (1 Credit)**

This Coding course is an innovative and interactive course that will prepare you for a career in the field of coding. This competency-based course introduces programming concepts, terminology, and best practices. An emphasis will be placed on how to analyze problems, design and develop software, create testing plans, and write documentation. Using virtual reality you learn how to use variables, erase, condition and loop when programming. Upon completion of this course you will earn a digital badge in coding, and will be better prepared for the Computer Programming Certification Exam.

Prerequisite: N/A

### **Criminal Justice (1 Credit)**

This Criminal Justice course is an innovative and interactive course that will prepare you for a career in law and public safety. In the Criminal Justice course, you will engage in virtual reality and interactive videos designed to test your visual memory and apply your skills to effectively manage a crime scene. Through a series of engaging videos and simulations you are immersed in topics that include Criminal Law, Police Skills, Security, and Communications. Upon completion of this course you will be equipped with work related knowledge and the skills necessary for careers in the law and public safety, and you will earn a digital badge in Criminal Justice, and will be better prepared for the Criminal Justice Certification Exam.

Prerequisite: N/A



# HIGH SCHOOL

## Career Technical Education VR

### **Culinary Arts (1 Credit)**

This Culinary Arts course is an innovative and interactive course that will prepare you for a career in the food industry. This competency-based course is designed to provide you basic culinary techniques, such as knife handling skills and the recognition, selection and proper use of tools and equipment. An emphasis will be placed on identifying and preparing a variety of foods and recipes as well as mastering conversions through the use of proper scaling and measurement techniques. Using virtual reality, you will prepare standard recipes while effectively managing time, accurately measuring ingredients, and appropriately using kitchen equipment. Upon completion of this course you will be equipped with work related knowledge and the skills necessary for careers in the food industry, and you will earn a digital badge in culinary arts, and will be better prepared for the Culinary Arts Certification Exam.

Prerequisite: N/A

### **Nursing Assistant (1 Credit)**

This Nursing Assistant course is an innovative and interactive course that will prepare you for a career in field of health science. This competency-based course is designed to prepare you with knowledge and basic nursing assisting skills. Which are necessary to assess, plan, provide, and care for various health care settings. Using virtual reality you will engage in interactive videos while, learning about infection control, personal care control, mental health needs, and legal responsibilities. Upon completion of this course you will be equipped with work related knowledge and the skills necessary for careers in the health science, and you will earn a digital badge in nursing assisting, and will be better prepared for the Nursing Assisting Certification Exam.

Prerequisite: N/A

### **Promobotics (1 Credit)**

This Promobotics course is an innovative and interactive course that will prepare you for a career in AI. This competency-based course is designed to provide you basic knowledge of promobotics. Using virtual reality you learn how to understand the rule priorities and why they are important when programming robots. Upon completion of this course you will be equipped with the skills and knowledge necessary in the probiotics and better prepared for the Promobotic Exam.

Prerequisite: N/A

### **Welding (1 Credit)**

This Welding course is an innovative and interactive course that will prepare you for a career Welding. This competency-based course is designed to provide you with knowledge of the basic manufacturing processes, properties of metals, and safe operating skills needed to demonstrate use of equipment in oxyfuel, shielded metal arc welding, and gas metal arc welding. Through a series of engaging videos and simulations, you are immersed in topics that include shielded metal arc welding, and gas metal arc welding and gas tungsten arc welding. Using virtual reality you will perform welds to current industry standards. Upon completion of this course you will be equipped with work-related knowledge and skills necessary for careers in welding and you will earn a digital badge in welding and will be better prepared for the Welding Certification Exam.

Prerequisite: N/A



# HIGH SCHOOL

## Career Technical Education VR

### Drones (1 Credit)

This Drone course is an innovative and interactive course that will prepare you for operating a drone, otherwise known as small unmanned aircraft system. In this course you will engage in virtual reality interactive videos designed to prepare you with how to operate a drone safely. Through a series of simulations you are immersed in the application of flying the drone through an urban and extreme weather obstacle course. Upon completion of this course you will be equipped with the skills and knowledge necessary for operating a drone and prepared for the Airman Knowledge Test.

Prerequisite: N/A

### Fundamental of Robotics (1 Credit)

This Fundamental of Robotics course is an innovative and interactive course that will prepare you for a career in robotics. This competency-based course is designed to provide you basic knowledge of robotics. Using virtual reality you learn how navigate the inner workings of robots. Upon completion of this course you will be equipped with the skills and knowledge necessary in the fundamental of robotics and better prepared for the Robotics Exam.

Prerequisite: N/A

### Medical Assistant (1 Credit)

This Medical Assistant course is an innovative and interactive course that will prepare you for a career in field of health science. This competency-based course is designed to prepare you with knowledge and clinic skills needed to assess, plan provide and evaluate care to patients in varied healthcare settings. You will learn first aid principles, diagnostic testing, laboratory procedures. Using virtual reality you will demonstrate the procedure for checking a patients blood pressure, correctly perform an ECG, conduct a visual acuity screening, and complete a lab request. Upon completion of this course you will be equipped with work related knowledge and the skills necessary for careers in the health science, and you will earn a digital badge in medical assisting, and will be better prepared for the Medical Assisting Certification Exam.

Prerequisite: N/A



## STUDENT SUPPORT CONTACT INFORMATION



📍 950 S Pine Island Rd Suite#  
A-150, Plantation, FL 33324

📞 800-218-5709

🌐 [www.k12prepacademy.com](http://www.k12prepacademy.com)

