



Online High School Course Catalog

2019–2020

Provided in partnership with StrongMind and UC Scout

Strongmind.com

UCscout.org

www.compasscharters.org



2019/2020 HIGH SCHOOL COURSE LIST

Key to Course Listing

AP - Advanced Placement level courses

P - College Prep Course

H - Honors

VPA – Meets CCS visual performing art requirement (not a-g approved)

(sem) – Semester course

* a-g approved course

^ pending a-g approval

++ Not a-g approved course, but accepted by community college/meets graduation requirements

Not a-g approved for both content and lab

Courses in **BLUE** are NCAA approved

History/Social Science

World History	P*
World History Honors	PH*
American History	P*
US History Honors	PH*
American Civics & Government (sem)	P*
Economics (sem)	P*

English

English 9	P*
English 9 Honors	PH^
English 10	P*
English 10 Honors	PH^
English 11	P*
English 11 Honors	PH^
AP English 11(S)	AP
English 12	P*
English 12 Honors	PH^
AP English 12(S)	AP

Mathematics

Algebra 1	P*
Algebra 1 Honors	PH*
Geometry	P*
Geometry Honors	PH*
Algebra 2	P*
Algebra 2 Honors	PH*
College Math Prep	P*
Consumer Math	P^
Pre-Algebra (sem)	++
AP Computer Science (S)	AP

Science

Life Science

Biology	P*
Biology Honors	PH*

Physical Science

Physical Science	P*
------------------	----

Chemistry	P*
Chemistry Honors	PH*
Physics	P*

Foreign Language

Spanish 1	P*
Spanish 2	P*
Spanish 3	P*

Visual and Performing Arts (VPA)

Art History A: Origins	P*
Art History B: Modern	P*
Intro Graphic/Web Design (sem/a-g CP elective)	P*
Photography (sem/a-g CP elective)	P*

Elective Courses

AP Psychology (S)	AP
AVID 9	P*
AVID 10	P*
Botany & Zoology (sem)	++
Criminology & Forensics (sem)	P*
Criminology & Justice (sem)	P*
Financial Literacy (sem)	P*
Fashion Design	P*
Health (sem)	P*
Human Anatomy & Physiology (sem)	++
Interior Design (sem)	P*
Marketing (sem)	++
Retailing (sem)	P*
Sociology	P*

Physical Education

Physical Education 9	++
Physical Education 10	++

Note: Course Availability Dependent on Enrollment

Table of Contents

History/ Social Sciences	4
English	6
Math	9
Science	11
Foreign Languages	13
Visual & Performing Arts	15
Elective Courses	16
Physical Education	18

SOCIAL SCIENCES

WORLD HISTORY A

World History A encompasses the expansive story of humanity from the dawn of civilization through the Industrial Revolution. Within this perspective, the course examines major civilizations on several continents. Along with the primary focus on history, the areas of geography, economics, government, and others are incorporated to provide a well-rounded point of view. Scholars discover the significance and impact world history has on their lives. They explore the aspects of human history throughout the world that continue to impact our lives today. These include the Agricultural Revolution, the rise and fall of great civilizations, and the dispersal of knowledge and ideas throughout the ancient world. Scholars also study the rise of civilizations in both the East and West after the decline and fall of these ancient civilizations, looking closely at the advent of certain technologies and perspectives that continue to guide human society in the modern era.

PRE-REQUISITES: None

WORLD HISTORY B

World History B picks up where World History A concluded with examining revolutions in the world and the establishment of European colonies around the globe. This course begins by exploring European colonies and the impact of European imperialistic desires on those colonies, in some instances leading to rebellions and in others to war crimes. Scholars trace the thwarting of the Napoleonic Empire and how imperialism led to great wealth for many nations. They analyze how this promoted cultural differences and led to nationalism, eventually resulting in World War I. Scholars analyze the effects of the First World War, including the Great Depression and internal colonial rebellions, and how this set the stage for the Second World War. Scholars then examine the two spheres of influence that emerged after World War II, resulting in a 45-year Cold War between the United States and the Soviet Union, with global effects on political, cultural, and economic realms. The course explores the power vacuum that emerged following the Cold War and how its end affected various nations in the world. Analyzing modern-day concerns, scholars learn about the impact of increased communications, news, and social media, economic globalization, environmental and energy issues, and technological advances and threats associated with them. Scholars examine and analyze materials that describe historical periods and interact with primary and secondary sources, readings, biographies, and other materials that paint a picture of world history and encourage scholars to explore historical topics. Discussions with peers help scholars think creatively and critically about topics. The projects that span the course are designed to develop and sharpen the scholars' writing skills.

PRE-REQUISITES: None

WORLD HISTORY HONORS A

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

WORLD HISTORY HONORS B

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

AMERICAN HISTORY A

American History A covers the establishment and growth of the United States, with a focus on the ideas that shaped America's history. The course covers European exploration and the impact Europeans had on the lives of those native to North America. Included are the foundation of British colonies in North America, the founding of the United States, the War of 1812, US western expansion, the Civil War, Reconstruction, the Indian Wars, immigration, American imperialism, the Progressive movement, and World War I. Special focus is given to the ideas that shaped the history of those living in the United States. Scholars review the American Revolution as they probe the major influences on the development of democracy and the principles of the US Constitution. They study the influence of movements including the Great Awakening, women's suffrage, civil rights, and industrialism on the nation's development. The course also examines the role of citizenship in the nation's growth and political development.

Scholars examine and analyze materials that describe historical periods and interact with primary and secondary sources, textbook readings, biographies, period literature, and other materials that paint a full picture of early American history and encourage scholars to explore historical topics. Discussions with peers help scholars think creatively and critically about each topic. All units include projects designed to develop and sharpen the scholars' writing skills.

PRE-REQUISITES: None

AMERICAN HISTORY B

American History B begins by evaluating the changing lifestyle of Americans during the 1920s, and how their lives dramatically changed as the United States experienced the Great Depression. Scholars continue on to explore the key events, leaders, and policies that involved the United States in World War II. They move through history to analyze the Cold War struggle and America's rise as a superpower, along with the Vietnam War, Korean War, and Nixon administration. They explore politics and culture after the Watergate scandal and explore the social and political implications of the civil rights and women's rights movements. Scholars learn about the events, leaders, and policies of presidential administrations through Barack Obama's first term.

Throughout the course, scholars examine and analyze materials that describe historical periods and interact with primary and secondary sources, textbook readings, biographies, period literature, and other materials that paint a full picture of early American history and encourage scholars to explore historical topics. Discussions with peers help scholars think creatively and critically about each topic. The projects that span the course are designed to develop and sharpen the scholars' writing skills.

PRE-REQUISITES: None

US HISTORY HONORS A

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

US HISTORY HONORS B

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

AMERICAN CIVICS and GOVERNMENT

American Civics and Government provides the scholar with the basic knowledge of the history and philosophy of the United States government and its principles, which guide our democracy. The scholar examines the United States Constitution in order to answer questions and determine the facts of government. The course focuses on the functions and duties of the three branches of government. Special attention is given to political participation, the rights and responsibilities of citizenship, and government systems of the world.

PRE-REQUISITES: American History A & B Recommended

ECONOMICS

Economics explores principles that allow scholars to make informed decisions about personal finance, develop a broader understanding of national and international policies, and understand why economics impacts distribution of wealth and quality of life globally. Scholars begin with an analysis of basic activities such as creating a budget and using debit/credit cards and progress to discussing taxes, saving, and investing for the future. They receive an overview of economics, including scarcity and economic systems of the world. Exploring microeconomics, they learn how individuals and businesses fit into the overall economy; in macroeconomics, they learn how the government determines tax policies, overall spending, and the handling of debt. Throughout the course, scholars examine and analyze readings, biographies, videos, and other materials, and participate in discussions with peers. The projects that span the course are designed to develop and sharpen the scholars' writing skills.

PRE-REQUISITES: None

ENGLISH

ENGLISH 9A

In this course, you will read and analyze both literary and informational texts. These texts take many different forms, including autobiographies, personal memoirs, newspaper and magazine articles, poetry, and even filmed stage productions. The course's reading selections demonstrate ways to understand explicit and inferred meaning through textual evidence, central ideas and details that support them, and figurative language, and the effects word choice has on tone and mood, among other ideas and concepts. As you read the selections in this course, you will practice ways to recognize textual evidence, identify themes and central ideas, make inferences, analyze word choice, and identify figurative and connotative language in a variety of texts. In addition, you will learn about basics in grammar, usage, and punctuation, including context clues and word functions, domain-specific language and dialect, parts of speech and figures of speech, and reference materials. You will also learn various vocabulary words and more about Greek and Latin prefixes, suffixes, and roots. In addition, you will learn the elements of writing so that you can plan, write, revise, and edit your own personal memoir and literary analysis. Through the lessons provided in this course, you will master techniques that will help you achieve a deeper appreciation of literary and informational texts.

PRE-REQUISITES: None

ENGLISH 9B

In this course, scholars read and analyze both literary and informational texts. These texts take many different forms, including biographies, short stories, newspaper and magazine articles, poetry, and influential historical documents. The course's reading selections demonstrate ways to understand explicit and inferred meaning through textual evidence; theme, central ideas, and details that support them; and structural elements and their influence on style, among other ideas and concepts. Throughout this course, you will read the novel *Anthem* by Ayn Rand. They will also examine informational texts to better understanding of historical moments throughout the history of the United States, including presidential speeches and a famous letter written by Martin Luther King Jr. during his imprisonment in a Birmingham jail at the height of the civil rights movement. As they read the selections in this course, scholars practice ways to recognize textual evidence, identify themes and central ideas, make inferences, and identify figurative and connotative language in a variety of texts.

In addition, scholars review information on context clues and word nuances, and learn about spelling conventions, style manuals, phrases clauses, parallel structure, semicolons, and colons. Scholars also learn the definitions, parts of speech, and etymology of various vocabulary words you will see throughout the reading selections. In addition, they learn the elements of writing so that you can plan, write, revise, and edit informational essay and argument essays.

PRE-REQUISITES: None

ENGLISH 9 HONORS A

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

ENGLISH 9 HONORS B

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

ENGLISH 10A

Intermediate Rhetoric and Composition is a course for 10th grade scholars who are at or near grade level in language arts skills. Emphasis is placed on grammar and usage, spelling, writing skills, punctuation, and literary nonfiction. Writing activities give scholars practice in researching, organizing, and developing descriptive, persuasive, narrative, and expository compositions. Intermediate Rhetoric and Composition continues to investigate the writing and discourse processes while supplementing them with the reading strategies necessary to comprehend and compose nonfiction texts. The course also examines persuasive arguments through rhetorical techniques that enable both self-expression and persuasion of others. The course asks the scholar to put forth effort to understand the different ways of acquiring and delivering information. Increasing knowledge of rhetoric and composition helps scholars become more effective at communication. By honing skills in the areas of reading and writing, scholars can maximize their contributions in both the academic and professional worlds.

PRE-REQUISITES: 9th Grade English

ENGLISH 10B

World Literature broadens scholars' reading experience with exposure to literature from multiple eras and cultures. The course includes diverse reading selections such as epic poetry, folktales, ancient verses, Greek tragedy, short stories, and excerpts from novels. Scholars are instructed in techniques for evaluating authors' use of language, determining meanings, making inferences, grasping central ideas, interpreting characters, and drawing conclusions to enable them to evaluate literary elements in these works. The course includes a concentrated study of classic Greek drama as scholars read *Antigone* by Sophocles. The course provides guided instruction in analyzing evidence, comprehending context clues, recognizing symbolism, and identifying figurative language. The course also covers language skills, such as using affixes to affect word meaning and understanding denotative and connotative meanings to enhance word choice. Writing activities challenge scholars' reading comprehension and composition skills with short projects involving research and writing, as well as producing character analysis and personal narrative essays.

PRE-REQUISITES: Preferably 9th Grade English

ENGLISH 10 HONORS A

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

ENGLISH 10 HONORS B

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

ENGLISH 11A

A Survey of Informational Text presents scholars with nonfiction works in a number of genres. Scholars examine seminal American documents ranging from Thomas Paine's *Common Sense* through Barack Obama's second inaugural address. Scholars learn ways to evaluate use of language, determine meanings, make inferences, grasp central ideas, evaluate bias, and draw conclusions by examining these works. The course also builds on scholars' abilities to speak and write formally, with an emphasis on persuading audiences. Scholars analyze persuasive arguments on subjects ranging from environmental conservation to legal decisions involving the First Amendment as they learn to identify elements of argument and to use rhetorical devices. Using other nonfiction works, the course guides scholars in recognizing the importance of analyzing evidence, recognizing symbolism, examining word choice, and identifying figurative language in nonfiction literature. The course also covers grammar and usage, punctuation, and correct spelling and meanings of vocabulary terms, and exposes scholars to several types of consumer documents.

PRE-REQUISITES: 10th Grade English

ENGLISH 11B

A survey course in American Literature. It involves the study of styles, techniques, philosophies, biographies, and ideas of major American writers as well as the historical events that influenced their works. The course emphasizes critical and analytical thinking, reading, and writing skills. In addition to the coursework of reading and interpreting literature from the textbook, scholars will read novels, short stories, and poems. American Literature examines the literary writings, discourse, and events that took place from the inception of the United States to the present day. This course involves scholars and pushes them to examine their own idea of culture and nationalism.

PRE-REQUISITES: 10th Grade English

ENGLISH 11 HONORS A

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

ENGLISH 11 HONORS B

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

AP ENGLISH 11 (LANGUAGE AND COMPOSITION - year-long course)

This course immerses scholars in close reading and analysis of a challenging literary works from a range of genres -- novels, short stories, poems, plays, and nonfiction. Composed of challenging reading and writing assignments, the course focuses on intensive reading and discussion of the literature. Scholars will read at a fast pace and will be required to form independent opinions about the offered materials. Thoughtful analysis of the readings and multi-step writing assignments will be required. The writing component focuses on focused interpretation of high level texts, with assignments ranging from Discussion Board

posts to full, five paragraph essays. Through course discussion boards, scholars will have consistent interaction with the teacher and with peers. During weekly live sessions, scholars will participate in presentations about course concepts and will be able to get additional feedback on writing assignments. AP Language and Composition is a year-long course. For most scholars, the course concludes with the College Board AP English Language and Composition exam in early May.

PRE-REQUISITES: 3.5 academic GPA

ENGLISH 12A

This course covers the art and craft of rhetoric—persuasion and argument—using informational and nonliterary texts, with a special emphasis on the understanding of reasoning and logic.

PRE-REQUISITES: 11th Grade English

ENGLISH 12B

Exploration of British Literature covers in-depth literary analysis—comprehension and evaluation—using a wide variety of narrative texts from British literature. Texts cover eras from the Middle Ages through modern times. Scholars will acquire the necessary skills for gaining a deeper understanding of literature and literary analysis.

The course builds in depth and complexity, starting with instruction on explicit and implicit meanings, use of figurative language and literary devices, and development of central ideas and themes. Scholars integrate ideas from multiple texts to compare and contrast the treatment of narrative and structural elements. These skills serve as the foundation for understanding the ways in which literature and language evolve, and appreciating authors and styles from many eras of British literature.

PRE-REQUISITES: 11th Grade English

ENGLISH 12 HONORS A

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

ENGLISH 12 HONORS B

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

AP ENGLISH 12 (LITERATURE AND COMPOSITION - year-long course)

This advanced literature course immerses scholars in close reading and analysis of a challenging literary works from a range of genres -- novels, short stories, poems, plays, and nonfiction. The course is composed of challenging reading and writing assignments which vary in depth and complexity, focusing on intensive reading and discussion of the literature and introducing secondary critical essays for discussion and evaluation. Emphasis will be placed on thoughtful and cogent analysis of the readings using a variety of theoretical frameworks and devices. The course is intended to provide scholars with an academic experience parallel to that of a college level literature course. The writing component focuses on expository, analytical and argumentative writing about the literature through both discussion and essay format. Scholars are expected to be active readers as they analyze and interpret textual detail, establish connections among their observations, and draw logical inferences leading toward an interpretive conclusion. Through course discussion boards, scholars will have consistent interaction with the teacher and with peers. During weekly live sessions, scholars will participate in presentations about course concepts and will be able to get additional feedback on writing assignments. AP Literature and Composition is a year-long course. For most scholars, the course culminates with the College Board AP English Literature and Composition exam in early May.

PRE-REQUISITES: 3.5 academic GPA

MATH

ALGEBRA 1A

Scholars in Algebra 1A Common Core explore the first three units of the standard pathway for Common Core mathematics, Algebra I. Scholars begin by looking at the relationships between quantities, and by reasoning with equations. They proceed to study linear and exponential relationships, with the focus in this first course on linear relationships. They also spend some time analyzing descriptive statistics.

PRE-REQUISITES: None

ALGEBRA 1B

In this course, scholars learn what functions are and how they can be used to model real-world situations. Scholars will identify key features and interpret functions presented as equations, graphs, tables, and verbal descriptions. Emphasis is placed on how different families of functions compare to one another, and transformations of functions will be performed for all function types presented. After functions, scholars learn about collecting data, how to present data in different data displays, and how to analyze data that is presented in different ways. The course concludes with an introduction to probability, where scholars will find compound probabilities based on whether events are dependent, independent, or mutually exclusive.

PRE-REQUISITES: Algebra 1A

ALGEBRA 1 HONORS A

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

ALGEBRA 1 HONORS B

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

AP COMPUTER SCIENCE A/B

This college-level course is designed to provide each scholar with a solid foundation in object-oriented programming and logical problem-solving techniques. Through an organized presentation that includes object oriented concepts, standard logic algorithms, and hands-on programming projects, each scholar will develop and strengthen their ability to conceptualize and solve problems through the implementation of effective solutions. Using the Java programming language, scholars will explore data encapsulation, class and method constructs, standard programming algorithms, programming methodology, and syntax structures. Scholars will work on programming examples including a minimum of 20 hours of lab work. This course is designed to prepare each scholar to complete the AP Computer Science A exam.

REQUIRED GRADE LEVEL: 9 - 12

PRE-REQUISITES: Algebra 1, Geometry, Algebra 2 and 3.5 academic GPA

GEOMETRY A

Geometry A Common Core focuses on the first three units of the Common Core Traditional Pathway for scholars in geometry. Content in each lesson is interwoven, in a story-telling style, with the adventures of Geomethor, a superhero who strives to save his world through the use of geometry. Scholars explore congruence, proofs, and constructions in the first three units before they continue on to study similarity, additional proofs, and trigonometry in the next two units. Scholars conclude their studies by extending to the third dimension.

PRE-REQUISITES: Algebra 1A & Algebra 1B

GEOMETRY B

Geometry B Common Core focuses on the second three units of the Common Core Traditional Pathway for scholars in geometry. Content in each lesson is interwoven, in a story-telling style, with the adventures of Hypatia, a hero of geometry, as she helps save her world through the use of geometry. Scholars explore connections between algebra and geometry, through coordinates. They then learn about circles with and without coordinates before they finish by looking at applications of probability.

PRE-REQUISITES: Geometry A

GEOMETRY HONORS A

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

GEOMETRY HONORS B

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

ALGEBRA 2A

From construction to physics, the concepts in this Algebra 2 course are used in a variety of real-world situations. In Algebra 2A, you'll extend the knowledge of trigonometry that you gleaned from Geometry as well as build upon the Algebra you learned in Algebra 1 to start modeling tons of real-world scenarios. You may not realize it right now, but the polynomials and other expressions and equations that make up Algebra 2 are the basis for things you love: from video games, to roller coasters, to the home you live in, it's all got a little Algebra in it.

PRE-REQUISITES: Algebra 1 & Geometry

ALGEBRA 2B

In Algebra 2B, scholars use their knowledge about equations and inequalities to model real-life situations. Scholars build upon the equation-solving skills they learned in Algebra 2A, including how to solve exponential equations with logarithms. They also synthesize and generalize concepts about a variety of function families. Finally, scholars deepen their knowledge of probability and its applications, and learn how to use basic statistics and sampling processes to understand data sets and answer questions about samples and populations.

PRE-REQUISITES: Algebra 2A & Geometry

ALGEBRA 2 HONORS A

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

ALGEBRA 2 HONORS B

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

CONSUMER MATH A

New Course - description pending

PRE-REQUISITES: Algebra 1 & Geometry

CONSUMER MATH B

New Course - description pending

PRE-REQUISITES: Algebra 1 & Geometry

COLLEGE MATH PREP

New Course - description pending

PRE-REQUISITES: Algebra 2

PRE-ALGEBRA (semester course only)

Scholars begin this course by reviewing operations with rational numbers. They find factors and multiples of numbers, along with common factors and multiples of sets of numbers. They also add, subtract, multiply, and divide integers, fractions, and mixed numbers. Scholars apply properties, such as the Distributive, Associative, and Commutative Properties, and use the order of operations to simplify numerical expressions and then algebraic expressions. Next, they work with algebraic equations and use them to solve problems. This is followed by identifying, graphing, and comparing linear relationships. The course concludes with an introduction to functions.

PRE-REQUISITES: None

SCIENCE

Life Science

BIOLOGY A

Biology A is one of two courses that explore life on Earth. This first course focuses on life at the cellular level. Scholars begin by reviewing the scientific process so they understand how science works to investigate questions and present findings. Then, it's full speed ahead into cells! After a study of cells' chemical makeup and size, scholars examine cell structures and how they function together. From there, scholars progress to how materials are transported in and out of cells as well as how cells obtain and use energy to carry out important life functions. One such function is cell division, which scholars examine in depth and use to segue into a study of genetics. As scholars learn about DNA and RNA, they come to understand how traits are inherited and how the study of inheritance is applied today. The historical perspectives and societal impact of topics in biology are incorporated into all lessons of the course.

PRE-REQUISITES: None

BIOLOGY B

Biology B is the second course exploring life on Earth in which scholars examine the bigger picture of life. Journeying through time, scholars explore the evolution of species and history of life on Earth. Shifting to the present-day, scholars examine the intricacies of the living organisms around them, beginning with microorganisms and continuing to plants and animals. Scholars then turn their attention to the human body systems and finish with a look at ecology and how humans interact with the environment. The historical perspectives and societal impact of topics in biology are incorporated into all lessons of the course.

PRE-REQUISITES: None

BIOLOGY HONORS A

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

BIOLOGY HONORS B

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

Physical Science

PHYSICAL SCIENCE A

Physical Science A provides an introduction to the world of chemistry. The course begins by providing an introduction to science as a whole and the basic methods and tools that scientists use to produce meaningful results. Scholars then explore the structure and properties of matter and how it changes in response to energy. Next, scholars practice reading and interpreting the information on the periodic table as well as chemical names, formulas, equations, and models. Scholars also discover the types and the properties of reactions, mixtures, solutions, acids, and bases. Finally, scholars examine both the scientific principles and the human applications of nuclear reactions. Throughout the course, scholars explore the historical perspectives and modern social implications of the course topics. This course uses a multimedia format that includes text, videos, animations, interactive activities, and group discussions. In self-check activities and quizzes, scholars practice what they learn and correct misconceptions or uncertainties before taking assessments. Scholars complete a unit exam and deliver a unit project in each unit. Teacher feedback is provided throughout the course.

PRE-REQUISITES: None

PHYSICAL SCIENCE B

Physical Science B provides an introduction to the world of physics. The course starts out by building a foundation of what it means to be scientific by describing the ways scientists think, communicate, and do their jobs. Next, scholars cover important aspects of motion and force, including the motion of fluids and how motion relates to Newton's laws. Building up from these fundamentals, scholars then explore the topics of thermodynamics, energy, work, and machines. The nature and properties of waves are covered next, and then the course ends by examining electricity and magnetism. Throughout the course, scholars parallel their investigation into the scientific method with a course project that introduces them to the field and processes of

engineering. This course uses a multimedia format that includes text, videos, animations, interactive activities, and group discussions. In self-check activities and quizzes, scholars practice what they learn and correct misconceptions or uncertainties before taking assessments. Scholars complete a unit exam and deliver a unit project in each unit. Teacher feedback is provided throughout the course.

PRE-REQUISITES: None

CHEMISTRY A

Chemistry A covers the basic principles and properties of matter. Scholars discover how chemistry has evolved, learn about chemical lab equipment, techniques, and safety, and explore the proper way to make measurements to reduce error and uncertainty. Scholars also explore atomic structure, periodic laws, types of bonding, chemical reactions, and stoichiometry. This course uses a multimedia format that includes text, videos, animations, interactive activities, labs, and group discussions. In self-check activities and quizzes, scholars practice what they learn and correct misconceptions or uncertainties before taking assessments. Scholars complete a unit exam and deliver a unit project in each unit. Teacher feedback is provided throughout the course.

CO-REQUISITES: Algebra 2A

CHEMISTRY B

Chemistry B focuses on the energy involved in chemistry and the uses for several types of chemical reactions. Scholars begin by refreshing and deepening their understanding of the basics of matter and their relation to energy. Next, scholars explore the properties of solutions, including acids, bases, and their reactions. Then, scholars dive into thermodynamics, electrochemistry, organic chemistry, and finally nuclear chemistry. In this course, scholars develop a solid understanding of several universal scientific principles and learn to manipulate the applications of chemistry in real-world settings. This course uses a multimedia format that includes text, videos, animations, interactive activities, and group discussions. In self-check activities and quizzes, scholars practice what they learn and correct misconceptions or uncertainties before taking assessments. Scholars complete a unit exam and deliver a unit project in each unit. Teacher feedback is provided throughout the course.

PRE-REQUISITES: Chemistry A, Algebra 2A

CO-REQUISITES: Algebra 2B

CHEMISTRY HONORS A

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

CHEMISTRY HONORS B

New Course - description pending

PRE-REQUISITES: 3.0 academic GPA/teacher recommendation

PHYSICS A

This course is a survey of the major themes of physical science including atomic theory, dynamics, energetics, thermodynamics, electricity, quantum mechanics, and particle physics. Interactive demonstrations and virtual labs allow the scholar to visualize and explore the laws and theories of physics. Scientific history, methods of exploration, and philosophy are also presented.

PRE-REQUISITES: Biology A & B, Algebra 2A & 2B

PHYSICS B

Physics B starts from classical physics and journeys to particle physics and modern electronics. Topics include the nature of light, wave motion, sound flow, optics, and electromagnetic fields. Scholars are introduced to Maxwell's field theory, which laid the foundation for Einstein and Planck to explore relativity and quantum mechanics. A full year of Physics constitutes a lab science

PRE-REQUISITES: Physics A, Algebra 2A & 2B

FOREIGN LANGUAGES

SPANISH 1A

In this introductory course, scholars are introduced to the basics of the Spanish language through reading, writing, listening, and speaking. Scholars will learn how to introduce themselves and others, talk about interests and hobbies, ask for directions, and more! Scholars will also learn about the cultures of some Spanish-speaking countries. They will learn about daily life in Mexico, the history of Spain, cultural traditions in Argentina, and more.

PRE-REQUISITES: None

SPANISH 1B

This course is the second semester of year one of Spanish. Scholars will continue with the introduction to the basics of Spanish language through reading, writing, listening, and speaking. Scholars will learn how to discuss school subjects, various professions, daily routines, and likes and dislikes. In addition to learning the language, scholars will also learn about the cultures of Venezuela, Chile, Ecuador, Guatemala, and Cuba. Scholars will learn about the history, traditions and practices of each of these countries. Scholars will participate in discussion boards, speaking practice, a multimedia writing project and a speaking project.

PRE-REQUISITES: Spanish 1A

SPANISH 2A

This course is the first semester of year two of Spanish. Scholars will continue with the introduction to the basics of Spanish language through reading, writing, listening, and speaking. Scholars will learn how to discuss social relationships, climate, various animals, fables, holiday customs and traditions, and outdoor activities. In addition to learning the language, scholars will also learn about the cultures of Paraguay, Puerto Rico, El Salvador, Costa Rica, and Bolivia. Scholars will learn about the history, products, traditions, practices, and perspectives of each of these countries. Scholars will participate in discussion boards, speaking practice, writing a fable in Spanish and a speaking project which will have the scholars ask questions, start, and end conversations.

PRE-REQUISITES: Spanish 1B

SPANISH 2B

Spanish 2B is the second semester of year two of Spanish. Scholars will continue with their acquisition of the Spanish language through reading, writing, listening, and speaking. Scholars will do so by participating in discussion boards, speaking practices, writing projects, and speaking projects. Scholars will learn how to discuss a variety of topics such as transportation, extracurricular interests, significant historical figures of various countries, professions, cuisine, clothing, health, and technological advances. Scholars will be able to discuss these topics in the present, past, future, and conditional tenses, as well as the present subjunctive mood. In addition to learning the language, scholars will also learn about the cultures of the Dominican Republic, Equatorial Guinea, Honduras, Uruguay, and Panama. Scholars will learn about the history, cultural products, traditions, practices, and perspectives of each of these countries.

PRE-REQUISITES: Spanish 2A

SPANISH 3A

Spanish 3A is a continued study of essential Spanish grammar and Spanish-speaking cultures. The course provides continued practice and development of reading, writing, and speaking skills in Spanish. The readings and multimedia content are designed to help scholars develop the vocabulary and grammar needed to express themselves in a growing variety of settings, with focus on regional differences in customs and pronunciation when presenting grammar and vocabulary in context. The course includes expansion of verb tenses to include the present and present perfect subjunctive, which are used in impersonal expressions ("It is probable that...") and complex sentences that express emotions of doubt, uncertainty, and hope. By the end of the course, scholars are capable of comparing and describing what they want and feel as they express their opinions on a variety of topics.

PRE-REQUISITES: Spanish 2B

SPANISH 3B

Spanish 3B is a study of essential Spanish grammar and Spanish-speaking cultures, building on the learning that scholars experienced in Spanish 3A. This course provides practice and development of reading, writing, and speaking skills in Spanish. Using readings and multimedia instruction, scholars learn verb tenses including the present and imperfect subjunctive,

conditional, present perfect, past perfect, future perfect, and past progressive, along with the correct sequence of tenses. By the end of the course, scholars are capable of comparing and describing what they want and feel as they express their opinions on a variety of topics. The course is designed to help scholars gain the vocabulary and sentence structure needed to express themselves in a variety of settings, with a focus on regional differences in customs and pronunciation in context. In addition, the course uses numerous creative works from Spanish-speaking authors and artists to illuminate concepts and provide real-world practice opportunities.

PRE-REQUISITES: Spanish 3A

VISUAL AND PERFORMING ARTS

ART HISTORY A: Origins

Art History A: Origins is designed to introduce scholars to the history of art. In this course, scholars journey through time, learning about prehistoric and ancient art, ancient Mediterranean and medieval art, and early European art from the Renaissance through Mannerism. Scholars also learn how to read art and interpret it on a basic level. Since art is best learned through experience and expression, scholars have opportunities to experience the art and react to it through discussion boards and projects. The goal of this course is to show learners how art relates to their own lives, even art from long ago!

SUGGESTED GRADE LEVEL: 9 - 12

PRE-REQUISITES: None

ART HISTORY B: Modern

Art History B: Modern is designed to introduce scholars to the history of art. In this course, scholars will journey through time, learning about early European art (from the Renaissance through 1750), late European art (from 1750 through 1900), modern and postmodern art (from 1900 through 2010), then take a look around their world as they study global art. Scholars should already be familiar with how to read and interpret art, from taking Art History: Origins; however, if they aren't, there are some helpful hints and links available to them. Since art is best learned through experience and expression, scholars will have opportunities to experience the art and react to it through discussion boards and projects. The goal of this course is to show the learner how art relates to their own lives... even art from long ago!

SUGGESTED GRADE LEVEL: 9 - 12

PRE-REQUISITES: None

GRAPHIC DESIGN

Welcome to Graphic & Web Design! This course is an introduction to how, through design, we are able to communicate visually with one another. Each unit will cover topics such as the principles & elements of design or printing and publishing projects. By understanding the foundation of visual communication through design, this course will be a great introduction to a career path that could potentially do for you!

SUGGESTED GRADE LEVEL: 9 - 12

PRE-REQUISITES: None

PHOTOGRAPHY

In Photography Basics, scholars will learn how to correctly explain the setup and proper use of basic photography equipment. Through projects and research activities embedded in the course, scholars will create and present a portfolio of work. In addition, scholars will be able to describe professional habits, etiquette, and technology essential to creating a photograph. Scholars will not need access to photography equipment in order to take the course; opportunities to practice with digital simulations and theory will be present throughout the course. This course is designed for any beginner interested in learning about photography and what it could take to make a career out of their interest in this exciting, dynamic field of study.

Photography Basics is designed for scholars in ninth grade or higher with no background in photography.

SUGGESTED GRADE LEVEL: 9 - 12

PRE-REQUISITES: None

ELECTIVE COURSES

AP PSYCHOLOGY A/B

Psychology is the scientific study of the inner workings of humankind's most complex organ: the brain. Designed as a tour through the realm of psychology, we'll explore the underlying mental functions and behaviors that govern how we sense, feel, learn, remember, and process language. You'll also learn how the mind develops as it ages, and the effects of nature versus nurture. Finally, you'll learn about psychological disorders, therapy and social psychology. By the end of this course you'll have a greater appreciation and understanding of how your own mind works.

REQUIRED GRADE LEVEL: 11 - 12

PRE-REQUISITES: 3.5 academic GPA

AVID (Advancement Via Individual Determination) 9/10

An elective course for scholars who are college-bound. The AVID curriculum focuses on writing, inquiry, collaboration and reading (WICR) through the AVID High School curriculum in both teacher and tutor-led activities. Scholars learn strategies to enhance success. Note-taking, outlining, writing, speaking, reading, test-taking awareness are stressed.

PRE-REQUISITES: (AVID 10) Selection Process, 2.4-3.5 GPA

BOTANY AND ZOOLOGY

The plant and animal kingdoms may not be the majority of life on Earth, but they are the most interesting for humans. This course focuses on the comparative anatomy and physiology of multi-cellular organisms. The study of plants and animals, respectively called botany and zoology, gives an idea of the diversity of life on the planet. NOTE: This course does not meet the lab science requirement.

PRE-REQUISITES: Biology A & B Recommended

CRIMINOLOGY AND FORENSICS

Criminology and Forensics is targeted for high school scholars at a beginner level of understanding of the topics of crime and forensic procedures. The course is designed to encourage scholars to be introspective and intrigued by the topics in the course. This course covers topics on crime and criminology, witnesses and perpetrators, and the crime lab. The course follows a story line of two college interns who discover a series of connected crimes in a suburban setting.

SUGGESTED GRADE LEVEL: 10 - 12

PRE-REQUISITES: None

CRIMINOLOGY AND JUSTICE

Criminology and Justice is targeted for high school scholars at a beginner level of understanding of the topics of crime and the justice system. The course is designed to encourage scholars to be introspective and intrigued by the topics in the course. This course covers topics on the criminal justice system, non-forensic evidence, and what happens inside the courtroom. The course follows the story line of two college interns who discovered a series of connected crimes in a suburban setting; the characters address the issues as a result, following the crime through the criminal justice process.

SUGGESTED GRADE LEVEL: 10 - 12

PRE-REQUISITES: Criminology and Forensics (only if both Criminology & Forensics and Criminology & Justice will be taken by the scholar)

FINANCIAL LITERACY

It is never too early to learn about monetary concepts related to financial literacy. This course will help you understand budgeting, work income, money management, and key concepts of banking and credit. Another important component of sound financial planning is to learn the basics of saving and investing. The Financial Literacy and Personal Finance course will educate you on how to spend, save, and invest money in order to achieve your financial goals.

SUGGESTED GRADE LEVEL: 10 - 12

PRE-REQUISITES: None

FASHION DESIGN

New Course - description pending

PRE-REQUISITES: None

HEALTH

This course provides an overview of how behavior affects health. The topics include nutrition and physical activity; growth, development, and sexual health; injury and safety prevention; alcohol, tobacco, and other drugs; mental, emotional, and social health; and personal and community health. Scholars explore how the choices they make about their bodies affect both their present and future. They will also be given tools to make informed decisions to better their health.

SUGGESTED GRADE LEVEL: 9 - 12

PRE-REQUISITES: None

HUMAN ANATOMY & PHYSIOLOGY

This course is designed to give a foundation to scholars interested in a career in the health sciences. The major tissues, organs, and organ systems of the human body are described, as well as their contribution to the health of the individual. The risks and benefits of various behaviors are also evaluated in the light of their contribution or detracting from body functions. NOTE: This course does not meet the lab science requirement.

PRE-REQUISITES: Biology A & B Recommended

MARKETING

New course pending description

RETAILING

This course communicates that retailing goes beyond sales, and explores the skills needed to succeed in real world careers. Scholars learn that opening a store requires research, strategy, and planning. A successful retail store requires careful merchandise selection, as well as buying and pricing expertise. In addition, it gives attention to service and management of employees at various levels.

SUGGESTED GRADE LEVEL: 10 - 12

PRE-REQUISITES: None

SOCIOLOGY A

Sociology is much more than conducting surveys or analyzing census data. Sociology is all about studying people and the groups they are part of. Sociology examines social trends and cultural changes. It involves asking questions and solving problems. Questions such as, what causes social inequalities, poverty, racism, or sexism. In Sociology A, the scholar will be introduced to the origins, research methods, and the work of sociologists.

SUGGESTED GRADE LEVEL: 11 - 12

PRE-REQUISITES: None

SOCIOLOGY B

Everyone belongs to one or more groups, and the groups we belong to influence the way we think, feel, and act. The study of sociology gives us tools to define and understand social groups. With those tools, the scholar will learn how social groups affect our beliefs and actions, and how their members interact with each other. The emphasis in Sociology B is on learning about social institutions and social change with an emphasis on understanding groups in contemporary American society.

SUGGESTED GRADE LEVEL: 11 - 12

PRE-REQUISITES: Sociology A

PHYSICAL EDUCATION

PHYSICAL EDUCATION 9/10

This Physical Education course is designed to provide scholars with the essential knowledge and skills needed to participate in physical activities that promote individual well-being. Physical education is necessary for healthy living but this course teaches more than just running and jumping. Many aspects of healthy living are covered. Topics discussed include physical fitness, nutrition, healthy peer relationships, stress management, weight and strength training, and a host of others.

SUGGESTED GRADE LEVEL: 9 & 10

PRE-REQUISITES: None