

**Earth Science A (1/2 credit)**

Earth Science offers a focused curriculum that explores Earth's composition, structure, processes, and history; its atmosphere, freshwater, and oceans; and its environment in space. Topics include an exploration of the major cycles that affect every aspect of life, including weather, climate, air movement.

**Earth Science B (1/2 credit)**

Building on this foundation is an exploration into tectonics, volcanic eruptions, rocks, minerals, geologic history, Earth's environment, sustainability, and energy resources. Optional teacher-graded labs encourage students to apply the scientific method.

**Physical Science A (1/2 credit)**

Physical Science offers a focused curriculum designed around the understanding of critical physical science concepts, including the nature and structure of matter, the characteristics of energy, and the mastery of critical scientific skills. Topics include an introduction to kinematics, including gravity and two-dimensional motion; force; momentum; waves; electricity.

**Physical Science B (1/2 credit)**

Building on this foundation is an exploration into atoms; the Periodic Table of Elements; molecular bonding; chemical reactivity; gases; and an introduction to nuclear energy. Teacher-graded labs encourage students to apply the scientific method.

**Biology A (1/2 credit)**

Biology offers a curriculum that focuses on the mastery of basic biological skills, concepts, and models that are important for students to know and apply in everyday life. The course begins with the study of cell and molecular biology and covers experimental design; chemistry and the biochemical basis of life; cell structure and function; basic metabolism; and genetics.

**Biology B (1/2 credit)**

Building on this foundation is an exploration into evolution, biodiversity, organismal biology, and ecology. As part of the study of vertebrates, the structure and function of major organ systems and biological processes in humans are introduced. Teacher-graded labs encourage students to apply the scientific method.

**Chemistry A (1/2 credit)**

Chemistry offers a curriculum that facilitates students' understanding of chemistry concepts and critical scientific skills. Topics include the nature of matter; the structure of atoms and molecules; bond formations; the qualitative and quantitative aspects of chemical reactivity.

**Chemistry B (1/2 credit)**

Building on this foundation is an exploration into the physical and chemical properties of solids, liquids, and gases; the states of matter; phase transitions; equilibrium; kinetics; thermodynamics; electrochemistry; nuclear chemistry; and an introduction to organic chemistry. Teacher-graded labs encourage students to apply the scientific method.

**Introductory Algebra A (1/2 credit)**

This course is for high school students needing an additional credit in mathematics. This course is focused on beginning algebraic concepts that prepare students for Algebra I. Course topics included are understanding the language of algebra, solving equations with addition and subtraction, fractions & decimals, measurement.

### **Introductory Algebra B (1/2 credit)**

This course is for high school students needing an additional credit in mathematics. This is a continuation of Introductory Algebra-A. This course is focused on beginning algebraic concepts that prepare students for Algebra 1. Course topics included are solving equations with multiplication & division, exponents, solving equations with roots & powers, multi-step equations, and linear equations.

### **Algebra I A (1/2 credit)**

This course is for high school students needing an additional credit in mathematics. Focusing on review of pre-algebra skills and introductory algebra content, Algebra I-A allows students to deepen their understanding of real numbers in their various forms and then extend their knowledge to linear equations in one and two variables. Algebra I-A features ample opportunity for students to hone their computational skills by working through practice problem sets before moving on to formal assessment. This course is focused on understanding the key algebraic concepts and preparing students to recognize and work with these concepts. Course topics include introductory algebra review; measurement; functions; graphing; linear equations; polynomials; data analysis; and probability.

### **Algebra I B (1/2 credit)**

This course is for high school students needing an additional credit in mathematics and is the continuation of Algebra 1-A. Algebra I-B course topics include a review of introductory algebra; measurement; graphing data; linear equations; systems of linear equations; polynomials; factoring of polynomials; factoring of quadratic functions; rational expressions; and radical expressions. This course is focused on understanding the key algebraic concepts and preparing students to recognize and work with these concepts. Course topics include introductory algebra review; measurement; functions; graphing; linear equations; polynomials; data analysis; and probability.

### **Algebra II A (1/2 credit)**

This course is for high school students needing an additional credit in mathematics. This course provides an extension to the algebraic concepts covered in Algebra I. These concepts include conic sections; functions, relations, and their graphs; quadratic functions; inverse functions; and advanced polynomial functions.

### **Algebra II B (1/2 credit)**

This course is for high school students needing an additional credit in mathematics. This course is a continuation of Algebra II-A. This course's concepts include touching base on rational expressions, radical expressions, exponential logarithmic functions and graphs, sequences & series, probability, and data analysis.

### **Geometry A (1/2 credit)**

This course is for high school students needing an additional credit in mathematics. This course is focused on understanding key geometric concepts. Course topics include reasoning; proofs; points, line, and angles; triangles.

### **Geometry B (1/2 credit)**

This course is for high school students needing an additional credit in mathematics. This is a continuation of Geometry A. This course is focused on understanding key geometric concepts such as quadrilaterals; and other polygons; circles; coordinate geometry; coordinate geometry; and three-dimensional solids. Students will also take a look as constructions; symmetry; tessellations; fractals; and non-Euclidean geometry

### **Geography and World Cultures (1/2 credit)**

Geography and World Cultures offers a tightly focused and scaffolded curriculum that enables students to explore how geographic features, human relationships, political and social structures, economics, science and technology, and the arts have developed and influenced life in countries around the world. Along the way, students are given rigorous instruction on how to read maps, charts, and graphs, and how to create them.

Geography and World Cultures is designed as the first course in the social studies sequence. It develops note-taking skills, teaches the basic elements of analytic writing, and introduces students to the close examination of primary documents

### **U.S. and Global Economics (1/2 credit)**

U.S. and Global Economics offer a tightly focused and scaffolded curriculum that provides an introduction to key economic principles. The course covers fundamental properties of economics, including an examination of markets from both historical and current perspectives; the basics of supply and demand; the theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; the concept of money and how it evolved; the role of banks, investment houses, and the Federal Reserve; Keynesian economics; the productivity, wages, investment, and growth involved in capitalism; unemployment, inflations, and the national debt; and a survey of markets in areas such as China, Europe, and the Middle East.

U.S. and Global Economics is designed to fall in the fourth year of social studies instruction. Students perfect their analytic writing through a series of analytic assignments and written lesson tests. They also apply basic mathematics to economic concepts. Students read selections from annotated primary documents and apply those readings to the course content.

### **U.S. Government and Politics (1/2 credit)**

U.S. Government and Politics offers a tightly focused and scaffolded curriculum that uses the perspective of political institutions to explore the history, organization, and functions of the U.S. government. Beginning with basic theories of government, moving to the Declaration of Independence, and continuing to the present day, the course explores the relationship between individual Americans and the governing bodies. It covers the political culture of the country and gains insight into the challenges faced by presidents, congressional representatives, and other political activists. It also covers the roles of political parties, interest groups, the media, and the Supreme Court.

U.S. Government and Politics is designed to fall in the fourth year of social studies instruction. Students perfect their analytic writing through a scaffolded series of analytic assignments and written lesson tests. Students read annotated primary documents and apply those documents to the course content.

### **World History Semester A (1/2 credit)**

World History Semester One offers a tightly focused and scaffolded curriculum that uses multiple perspectives to trace the development of civilizations around the world from prehistory to the Early Modern Era in Europe. The course covers major events in world history, including the development and influence of human-geographic relationships, political and social structures, economics, science and technology, and the arts. Students investigate the major religions and belief systems throughout history and learn about the importance of trade and cultural exchange. Students learn to use primary historical documents as evidence as they learn about past events.

### **World History Semester B (1/2 credit)**

World History Semester Two offers a tightly focused and scaffolded curriculum that uses multiple perspectives to trace the Age of European Expansion up to modern day events. The course covers major events in world history, including the development and influence of human-geographic relationships, political and social structures, economics, science and technology, and the arts. Other topics include the development of agriculture, the spread of democracy, the rise of modern nation-states, the industrial era, the spread of imperialism, and the issues and conflicts of the 20th century. Students investigate the major religions and belief systems throughout history and learn about the importance of trade and cultural exchange. Students learn to use primary historical documents as evidence as they learn about past events.

### **U.S. History Semester A (1/2 credit)**

U.S. History Semester One offers a tightly focused and scaffolded curriculum that traces the political, social, economic, and cultural heritage of the United States through the first three centuries of change and development. Students learn about the Native American, European, and African people who lived before the Declaration of Independence in what is now the United States. They also explore the multiple causes and effects of the Civil War up to the Industrial Revolution

### **U.S. History Semester B (1/2 credit)**

U.S. History Semester Two offers a tightly focused and scaffolded curriculum that traces the political, social, economic, and cultural heritage of the United States through the last 125 years of development. Students learn to interpret historical documents using examples from the Great Awakening, westward expansion, the "roaring twenties," Great Depression, McCarthyism, and the struggle for civil rights up to events of the 21st century.

### **English I: Introduction to Literature and Composition A (1/2 credit)**

Students will cover literature study, reading, writing, and language topics that are appropriate at the freshmen level of study. The major topics covered in the course short stories, elements of plot and setting, vocabulary development, suspense, character, voice, narration, process essay writing, tone, cause and effect essay writing, irony, and symbolism.

### **English I: Advanced Topics in Literature and Composition B (1/2 credit)**

This is the second semester for Literature and Composition. Major readings for this course will include Romeo and Juliet, The Raven, The Odyssey, and West Side Story. The major topics covered in this course are non-fiction, personal essays, biographies, oral presentations, and opinion/editorial essays.

### **English II: Critical Reading and Effective Writing A (1/2 credit)**

Students will develop both academic and life skills through this course that are appropriate for the sophomore level. Academic skills are supported through a variety of both fiction and non-fiction works. Life reading skills are supported through applications and other work-related communication. Major topics covered in the course are short fiction, poetry, drama, novels, non-fiction, life skills readings, essay writing, persuasive writing, courtroom rhetoric, compare-and-contrast essay writing, and vocabulary development. Authors studied are Cummings, Millay, Brooks, Miller, and Tan.

### **English II: Advanced Topics in Critical Reading and Effective Writing B (1/2 credit)**

This is the second semester for critical reading and effective writing. Students will continue their studies through the works of Shakespeare, Tolson, and Knowles. Major topics covered in the course are: theme, short fiction, poetry, analogies, comedies in drama, forms, personal statements, writing a dramatic scene, memos and letters, novel reading, and historical letter analysis.

### **English III: American Literature A (1/2 credit)**

Students will build literary and communication skills through a survey of American Literature that spans from colonial to contemporary eras. The readings and writings are appropriate for the junior level of study. The major topics covered in the course include the following: historical readings, writing, language appreciation, literary analysis, vocabulary building, grammar review, poetry, personal essay writing, and workplace communication.

### **English III: Advanced Topics in American Literature B (1/2 credit)**

This is the second semester of American Literature. Students will continue to survey reading of American Literature that span from colonial to contemporary eras. The major topics covered in the course include the following: modern readings, poetry analysis, short story analysis, fiction writing, word origins, theme, speechwriting, drama analysis, and research paper writing.

#### **English IV: British and World Literature A (1/2 credit)**

Students will be introduced to the classics of British and world literature in a way that is appropriate for the senior level. Students will be asked to read and respond critically to literature, non-fiction, and media. The major topics covered in the course are the following: Greek Tragedies, grammar review, the epic, Anglo-Saxon poetry, universal themes in literature, thematic analysis, tone analysis, drama, conflict, and action. Readings will include authors such as Chaucer, Shakespeare, Donne, and Swift.

#### **English IV: Advanced Topics in British and World Literature B (1/2 credit)**

This is the second semester of British and World Literature. Students will continue their study with readings from Shelley, Joyce, Conrad, and Achebe. Major topics covered in this course are romantic poetry, modern short stories, culture in literature, persuasive essays, and research projects.

#### **Spanish I Semester A (1/2 credit)**

Spanish I Semester A teaches students to greet people, describe family and friends and talk about hobbies. Each lesson presents vocabulary, grammar, and culture in context, followed by explanations and exercises. Instruction in language structure and grammar includes the structures and uses of present-tense verb forms, impersonal constructions and formal and informal addresses. Students explore words used in different Spanish-speaking regions and learn about the cultures of Spanish-speaking countries and regions within and outside Europe.

#### **Spanish I Semester B (1/2 credit)**

Spanish I Semester B teaches students communicate about other topics, such as home life, occupations, travel, and medicine. Each lesson presents vocabulary, grammar, and culture in context, followed by explanations and exercises. Vocabulary includes terms to describe school subjects, parts of the body and idiomatic phrases. Instruction in language structure and grammar includes the structures and uses of imperatives, adjective agreement and reflexive verbs.

#### **Music Appreciation Semester A (1/2 credit)**

Music Appreciation is a streamlined course that introduces student to the history, theory, and genres of music, from the most primitive surviving examples, through the classical to the most contemporary in the world at large. The first semester covers primitive musical forms, classical music, and American jazz. The course explores the interface of music and social movements and examines how the emergent global society and the Internet are bringing musical forms together in new ways from all around the world. Students complete either a performance practicum or a listening practicum throughout the course. The performance practicum requirement can be met by participation in supervised instrumental or vocal lessons, participation in a church or community choirs, community musical performances, or anything that is structured to meet at regular intervals and legitimately provides opportunities for students to build vocal and/or instrumental skills. The listening practicum requires students to listen to a variety of music genres and comment. Parents or guardians will be required to validate their children's regular participation in the chosen performance or listening practicum.

#### **Music Appreciation Semester B (1/2 credit)**

Music Appreciation is a streamlined course that introduces student to the history, theory, and genres of music, from the most primitive surviving examples, through the classical to the most contemporary in the world at large. The second semester presents the rich modern traditions, including: gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop. Students complete either a performance practicum or a listening practicum throughout the course. The performance practicum requirement can be met by participation in supervised instrumental or vocal lessons, participation in a church or community choirs, community musical performances, or anything that is structured to meet at regular intervals and legitimately provides opportunities for students to build vocal and/or instrumental skills. The listening practicum requires students to listen to a variety of music genres and comment. Parents or guardians will be required to validate their children's regular participation in the chosen performance or listening practicum.

**Skills for Health (1/2 credit)**

Skills for Health is a valuable, skills-based health education course designed for general education in grades 9 through 12. Skills for Health helps students develop knowledge, attitudes, and essential skills in a variety of health-related subjects, including mental and emotional health; nutrition; physical activity; substance use and abuse; injury prevention and safety; and personal health, environmental conservation, and community health resources.

**Physical Education (1/2 credit)**

Physical Education combines the best of online instruction with actual student participation in weekly cardiovascular, aerobic, and muscle toning activities. The course promotes a keen understanding of the value of physical fitness and aims to motivate students to participate in physical activities throughout their lives. Specific areas of study include: Cardiovascular exercise and care, safe exercising, building muscle strength and endurance, injury prevention, fitness skills and FITT benchmarks, goal setting, nutrition and diet (vitamins and minerals, food labels, evaluation product claims), and stress management. The course requires routine participation in adult-supervised physical activities. Successful completion of this course will require parent/legal guardian sign-off on student-selected physical activities and on weekly participation reports to verify the student is meeting his or her requirements and responsibilities.