

Catalog of Core Courses



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English Language Arts

English I (1 Credit)

Language Skills builds on skills learned in English Grammar Skills (eighth grade) by reviewing the parts of speech and their application. Students read and evaluate literature carefully selected to expose students to noble ideals and writing techniques that equip students to craft strong sentences and paragraphs, while becoming effective wordsmiths skilled in producing poems, letters, essays, narratives, editorials, articles, speeches, allegories, and research papers. Students gain experience writing pieces that inform, entertain, persuade and challenge. Students learn to address literary concepts such as cause and effect, logic, premises, comparison, and contrasts.

English II (1 Credit)

Composition Skills builds on skills learned in English I by continuing to hone writing skills. Students read, write and evaluate different genres carefully assigned to expose students to noble ideals and writing techniques that equip students to craft strong sentences and paragraphs, while becoming effective wordsmiths skilled in producing poems, letters, essays, narratives, editorials, articles, speeches, allegories, and research papers. Students gain experience writing pieces that inform, entertain, persuade and challenge. Students learn to address literary concepts such as cause and effect, logic, premises, comparison, and contrasts.

English III (1 Credit)

Writing Skills builds on skills learned in English I by continuing to hone writing skills. Students read, write and evaluate different genres carefully assigned to expose students to noble ideals and writing techniques that equip students to craft strong sentences and paragraphs, while becoming effective wordsmiths skilled in producing poems, letters, essays, narratives, editorials, articles, speeches, allegories, and research papers. Students gain experience writing pieces that inform, entertain, persuade and challenge. Students learn to address literary concepts such as cause and effect, logic, premises, comparison, and contrasts. Students are required in English III to complete a research paper.

English IV (1 Credit)

This course provides a study of the major world authors who were “firsts” in their fields of philosophy, reform, politics, science, religion, drama, poetry, novels, short stories, essays, biographies, and autobiographies. This study takes an historical approach to literature touching on ancient writings, and progressing through the Dark Ages, the Medieval Era, and into Modern times. This course also addresses cultural traditions of oral recitation, myth, fable, legend, parable, and folklore. The student will also learn to recognize literary characteristics such as theme, tone, and voice, as well as techniques to enhance interest, including anaphora, refrain, and many more components of literature.

American Literature (0.5 Credit)

This course includes a study of works by American authors from Colonial times through the twentieth century. Emphasis is given to relating literature to the cultural and historical context of the United States from the landing of the Pilgrims to modern times

British Literature (0.5 Credit)

This course is a survey of British literature from the Middle Ages through the twentieth century. Emphasis is given to relating literature to the cultural and historical context of Great Britain and the impact of British literature on Western civilization.

Excellence in Writing (.05 Credit)

This creative writing course is designed to facilitate creative writing and prepare the student for excelling in SAT and college and scholarship application essays.

Social Science

Economics (0.5 Credits)

This course reinforces concepts of micro- and macro- economics by having students explore the basic characteristics of the U.S. economic system, and how economic principles influence business decisions. It also introduces students to career opportunities, consumer issues, and helps reinforce important academic and leadership skills, including: research and data analysis, problem-solving and critical thinking.

U.S. Government (0.5 Credits)

This course examines American government from the establishment of the nation to contemporary time. Students examine the Constitution, branches of the federal government, state and local governments and the conduct of the government in world affairs.

U.S. History

Beginning with discovery of the New World, the study includes the War of Independence, the Jackson Era, the War Between the States, the two World Wars, America's foreign relations after World War II, the cold war, space exploration, Civil Rights, the United Nations, Watergate, the Persian Gulf Wars, and the war against terrorism.

World Geography (1 Credit)

This course includes reading, drawing, and interpreting various kinds of maps and a continent-by-continent study of cultural, physical and political geography.

World History (1 Credit)

World history from Creation to the present is viewed from a biblical perspective. The view includes ancient civilizations, the Middle Ages, the Renaissance, colonialism, the age of revolution, World Wars I and II, Korea, the breakup of the Soviet Union and current events.

Mathematics

Algebra I (1 Credit)

Basic algebraic concepts are introduced in a carefully structured way so as to make the learning material understandable. This curriculum includes principles for logically solving, transposing, and canceling algebraic equations.

Students work with monomial and polynomial expressions; Algebraic addition, subtraction, multiplication, and division; factoring, quadratic equations, positive and negative numbers, averages, percent, interest, ratios, and proportions.

Geometry (1 Credit)

This course develops the deductive reasoning powers of students; reviews previously learned material from Algebra I and introduces new concepts. Students learn properties and theorems and how to use them for solving problems, and to reason logically and systematically.

Algebra II (1 Credit)

This advanced study in algebra includes parabolas, hyperbolas, permutation, logarithms, and matrices. Students learn to operate with radicals, fractions and equations, arithmetic and geometric sequences.

The approach is practical, enabling students to use their reasoning abilities to solve real world problems.

Trigonometry/Pre-Calculus (1 Credit)

In trigonometry, students are presented with a thorough treatment of trigonometric concepts and applications including solutions of right and oblique triangles, solutions of trigonometric equations and functions, vector applications and polar coordinates.

The study of Pre-Calculus includes functions, including algebraic, logarithmic, exponential and matrix functions.

Math Models (1 Credit)

Students will use mathematical models from Algebra and Geometry to solve problems from a wide variety of advanced applications in mathematical situations involving data, patterns, money, probability and science. This course must be taken as a bridge between Geometry and Algebra II.

Foundations of College Algebra (1 Credit)

Students will extend their understanding of Algebra to better prepare them for college level mathematics courses. This course is designed to be a bridge between Algebra II and College Algebra.

Natural/Physical Science (Laboratory activities included)

Anatomy and Physiology (1 Credit)

This course begins with a review of cell structure and organelle functions and proceeds to an in-depth study of each of the systems of the human body ranging from the Circulatory system to the urinary system.

Biology (1 Credit)

This course explores the wonders of living Creation. Included are studies of birds, mammals, fish, amphibians, reptiles, sponges, coelenterates, mollusks, echinoderms, worms, arthropods, plants, and microorganisms. A study of the human body includes the integumentary, skeletal, muscular, nervous, circulatory, respiratory, digestive, and endocrine systems. Genetics and embryology are incorporated into the study of the human reproductive system.

Chemistry (1 Credit)

This course covers Organic and inorganic chemistry; Biochemistry; molecular bonding, chemical reactions; gas laws; Electrochemistry; Nuclear chemistry; balancing of chemical equations; Periodic Table of the Elements; properties of metals, nonmetals, and metalloids; chemical equilibrium; Thermodynamics; acids and bases; quantitative and qualitative analysis.

Marine Biology (1 Credit)

This course begins with the geography of the oceans and the properties of sea water. The study of marine life includes marine invertebrates, marine vertebrates, marine ecology, estuary communities, coral reefs, continental shelf communities, the deep ocean, ocean resources, and the effects of humans on the sea.

Physical Science/Integrated Physics and Chemistry (1 Credit)

This course introduces students to the people, places and principles of physics and chemistry. Focus is on the people who contributed to development of the Periodic Table of the Elements. Students learn to read and apply the Table while gaining insight into basic chemistry and physics.

Physics (1 Credit)

The basics of Physics are practical, interesting, and understandable in this course which includes: measurements and mathematics; force and motion; momentum and energy; states of matter; gas laws; heat and kinetic theory; radiation and nuclear energy; electrochemistry; magnetism and electrical circuits; light and electricity; optics and optical instruments; wave motion and sound.

Science (non-laboratory)

Earth Science (1 Credit)

This course introduces specific areas of study such as astronomy, volcanology, topography, oceanography, meteorology, and mineralogy with proofs of the Creation. Students learn about the perfection of God's design for the universe. Weather science is a fascinating study as a part of this curriculum.

Environmental Science (1 Credit)

This course will provide students with scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

Medical Terminology (1 credit)

A comprehensive introduction and overview of Medical Terminology presented in a straightforward and easy manner for students with no background in Biology and Medicine.

Foreign Languages

French I (1 Credit)

This is an introduction to the French language. The main emphasis is on oral skills while developing reading and writing skills. The focus of this course is on novice proficiency.

French II (1 Credit)

French II continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of mid-to high-novice proficiency. Expansion of vocabulary and grammatical structures continues.

German I (1 Credit)

This is an introduction to the German language. The main emphasis is on oral skills while developing reading and writing skills. The focus of this course is on novice proficiency.

German II (1 Credit)

German II continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of mid-to high-novice proficiency. Expansion of vocabulary and grammatical structures continues.

Spanish I (1 Credit)

This is an introduction to the Spanish language as spoken in Latin America. The main emphasis is on oral skills while developing reading and writing skills. The focus of this course is on novice proficiency.

Spanish II (1 Credit)

Spanish II continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of mid-to high-novice proficiency. Expansion of vocabulary and grammatical structures continues.

Spanish III (1 Credit)

Spanish III continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of low to mid intermediate proficiency. Expansion of vocabulary and grammatical structures continues for increased literacy.

Spanish IV (1 Credit)

Spanish IV continues to develop the oral skills with added emphasis on reading and writing skills for proficient literacy. The focus is on the development of high intermediate to advanced proficiency. Expansion of vocabulary and grammatical structures continues.