



## 9<sup>TH</sup> Grade

### **Physical Science/Earth Science --- Required 1 credit**

This course gradually builds the student's understanding of physics concepts in a logical sequence. Beginning with classical mechanics, the course progresses through work and energy, wave phenomena, electricity and magnetism, and light and optics. These transition naturally into the chemistry topics, beginning with the atomic model, then to elements and compounds, chemical reactions, and finishing with solutions, and acids, bases and salts. Included is the study of tectonic processes, landforms and earth materials, fossils, the oceans and oceanography, rivers and lakes, the atmosphere, weather and storms, climate and environmentalism, the solar system, the universe and cosmology, and space science.

### **Algebra I --- Required 1 credit**

Algebra I will focus on the integration of algebraic concepts in technology and real-life applications, presenting topics in logical order with detailed examples that promote student comprehension and retention. Students explore the simplification, solving, graphing and interpretation of linear, exponential, radical, quadratic, and rational functions both manually and with technology.

### **Cultural World Geography---Required 1 credit**

Cultural Geography provides a survey of geographic principles through a regional approach. Students will "travel" from continent to continent around the world studying the geography, cultures, landforms, climates, resources, economy, religions and government of each country.

### **English I---Required 1 credit**

#### **Grammar and Composition III**

This course will give the student the ability to express one's ideas creatively as well as correctly and the ability to comprehend and interpret the written word skillfully. It will provide foundational practice of proper grammar and develop the basic composition skills utilized in outlining, summarizing, researching, and writing a variety of expositions, letters, and essay answers.

### **Literature---Required (part of English I)**

#### **Themes in Literature**

Themes reflected in this course are: truth and wisdom, courage, humility, justice, temperance, joy and peace, beauty, faith and hope, love, Christmas, and time and eternity.. As the student becomes familiar with classics such as *Wind in the Willows*, *Jane Eyre*, *Con Quixote*, and *The Adventures of Tom Sawyer*, he learns to appreciate a well-written presentation of a theme. It will provide an increased enjoyment of literature and provide the foundation needed to critically analyze the piece.

### **Vocabulary, Spelling and Poetry III --- Required (Part of English I)**

Challenging words emphasize the application of several spelling rules, the addition of specific suffixes, and the necessity of learning frequently misspelled words. The goals of poetry recitation and memorization are an enjoyment and appreciation of poetic beauty and excellence.

### **Health and PE---Required 1 credit**

Students learn about nutrition, growth, and development, and the digestive and endocrine systems. The course includes information on safety, first aid, drug abuse, and interpersonal relationships. PE will have the student learning the rules of games and playing as a team. Will also

### **Keyboarding --- Elective 1 credit**

This keyboarding course begins with the basics of learning the keyboard—all alphabet and figure keys. Students will also become familiar with PowerPoint and Word programs.

### **Bible --- Required Elective 1 credit**

#### **New Testament Survey**

New Testament Survey is an overview of the books of the New Testament including authorship, date of writing, theology, and application to everyday life. Verse memorization is required. Included will be the effect of Roman conquest and Middle Eastern cultures and how they influenced society and culture during the time of Christ.

## 10<sup>th</sup> Grade

### **Biology --- Required 1 credit**

Students will learn about cellular biology, genetics, taxonomy, microbiology, botany, zoology, and human anatomy. During the lab, the student will dissect and identify many organisms such as earthworm, crayfish, perch and grass frog.

### **Geometry --- Required 1 credit**

This is a traditional course, requiring the students to prove theorems. Exercises seek to develop problem solving skills and reinforce the geometry concepts covered in each lesson. Exercises scattered through each chapter offer the opportunity for students to use technology in problem solving, helps students to make the algebra-geometry connection, reveals some of geometry's secret hideouts, and introduces students to the achievements of mathematicians of the past.

### **World History and Cultures --- Required 1 credit**

World History recounts the story of mankind from creation to the present. Students examine ancient civilizations through the Greeks to the Roman Empire. They survey India, Asia, and Africa on their way to the Middle Ages, the Renaissance, and the Reformation, upon which modern history is founded. They are challenged to discover the forces, issues, people, and movements that have shaped our modern world.

### **English II --- Required 1 credit**

#### **Grammar and Composition IV**

Builds upon the grammar foundation established in previous years and introduces new concepts to further enhance the student's knowledge of basic grammar. The course emphasizes writing by having students write essays, an extended definition, a process paper, a literary theme, critical book reviews and a research paper.

### **Literature --- Required (part of English II)**

#### **World Literature**

Student will learn about the makeup of literature by studying a variety of literary terms and devices such as imagery and figurative language. World Literature offers a background to the study of world literature, and introduces works chronologically from the time of the ancient East to the Modern Age (twentieth century). Student will read classics that reflect the thinking of each time period, such as *Divine Comedy*, *Moby Dick*, *Paradise Lost*, *Aesop's Fables*, and *Foxe's Book of Martyrs*. Art appreciation is also an important part of the literature study in English II. World Literature includes painting, sculptures, and architecture that reflect the themes of each unit.

### **Vocabulary, Spelling and Poetry IV (part of English II)**

Word mastery in this course will help students in writing, speaking, and reading comprehension. Students memorize ten poems over the course of the year. Students will learn how to solve analogy questions and how to analyze word meanings based on their prefixes, roots, and suffixes.

**Spanish I --- Required Elective 1 credit**

A course designed to enable the student to speak, understand, read, and write the basic Spanish he would need to know in most everyday situations. It provides a first-year student with a logical, step-by-step introduction to the most common Spanish words and expressions. The knowledge is applied as they participate in conversations, read assigned material, sing songs, translate, give oral reports, perform dramas, and write letters and reports.

**Fitness and Conditioning --- Elective 1 credit**

Provides students an overview of the skills, development and training principles of a strength and conditioning regimen. Course focuses on training intensity, injury prevention, nutrition, conditioning and fitness programming.

**Bible --- Required Elective 1 credit****Old Testament Survey**

Gives overview of the Old Testament including authorship date of writing, theology and the importance of its relationship to the New Testament. A brief overview of the cultures and nations of the ancient Bible times is included. Verse memorization is required.

**11<sup>th</sup> Grade****Algebra II --- Required 1 credit**

Course focuses on developing thinking and reasoning skills through the discussions of algebra concepts such as quadratic equations, polynomials, complex numbers, and trigonometry. Relevant applications and examples are presented through out the text.

**Anatomy and Physiology --- Required 1 credit \*\*\* weighted course**

Define anatomic terms used to refer to the body. Describe major cavities of the body and the organs. During the course the student will learn about: human body, chemistry of life, cell structure, cellular metabolism and reproduction (mitosis and meiosis), tissues, integumentary system, skeletal system, articular system, muscular system, nervous system, endocrine system, blood, cardiovascular system, lymphatic system, nutrition and the digestive system, respiratory system, urinary system, and the reproductive system.

**English III --- Required 1 credit****Grammar and Composition V**

Student will build upon the study elements to express ideas creatively and to skillfully comprehend the written word. The course will build upon the grammar foundation established in previous years and introduce new concepts. Writing assignments in argumentative essay, narrative essay, exposition of a process, literary character analysis, critical book reviews, and a research paper are all part of the course. Several smaller writing assignments are also included.

**Literature --- Required (part of English III)****American Literature**

This course will present selections that reflect the faith, doubts, longings, accomplishments, and emotions of the American people. Student will further develop their skills in analyzing literature as they study several genres and time periods. Student will learn significant American authors and their influential works while reading classics such as *Moby Dick*, *Ben Hur*, *Uncle Tom's Cabin*, *The Innocents Abroad*, and *The Song of Hiawatha*. Art appreciation is also a part of the course presenting paintings that reflect the themes and time periods.

**Vocabulary, Spelling and Poetry V --- Required (part of English III)**

Mastery of the vocabulary and spelling words will greatly help the student in writing, speaking, and reading comprehension. Student will memorize poetry and further develop their ability to analyze words by studying prefixes, roots, and suffixes.

**Spanish II --- Required Elective 1 credit**

Designed to improve the student's ability to speak, understand, read and write basic Spanish in most everyday situations. Spanish II introduces new grammar to enable the student to speak the language with a real working knowledge of it. Cultural readings of Spain and Latin America are also included.

**US History --- Required 1 credit**

US History recounts the story of our nation's history from its discovery and colonization up to the present day. It will present a thorough coverage of key historical events, tracing the progress of America through its stages of colonization, independence, and growth to its emergence as a world power in the twentieth century.

**Bible --- Required Elective 1 credit****Book of Hebrews**

Verse by verse study, showing the impact of Christ and His effect on the Hebrew nation as well as our daily lives. Verse memorization is required.

**Document Processing --- Elective 1 credit**

Formatting and producing employment and business documents is the focus of this course. Student will work on their resume and a cover letter, preparing them to seek employment. Compile a document portfolio that includes many documents that students have worked on in keyboarding.

**12<sup>th</sup> Grade****English IV --- Required 1 credit****Grammar and Composition VI**

This course is for reinforcement of the skills that the student has gained in previous studies. This course will include essays, argumentative essays, oral book reports, full book reviews, vocation project, and character analysis.

**Literature --- Required (part of English IV)****English Literature**

Presents a chronological study of English literature from the Anglo-Saxon period to the Modern Age (twentieth century). Classics such as *Beowulf*, *The Importance of Being Earnest*, *Pride and Prejudice*, *Paradise Lost*, *Robinson Crusoe*, *David Copperfield*, and *The Canterbury Tales*. Student will learn about a variety of literary genres and will further analyze literature through in-depth studies of a tragedy, an allegory, and a novel. An appreciation of art for this period of time is also incorporated.

**Spelling, Vocabulary and Poetry VI --- Required (part of English IV)**

The student will know and use a selection of choice vocabulary words which will help during a job interview, on a college entrance exam, or simply in meeting the expectation for expression and communication. Mastery of vocabulary words will help in writing, speaking, and reading comprehension. Many of the words are taken from the English Literature. Student will study the antonyms and synonyms included with the definitions and learn prefixes, root words and suffixes. The student will also memorize a number of poems.

**American Government --- Required      ½ credit**

Traces the roots of our political institutions and examines the Constitution itself. Through a clear explanation of legislative, executive, and judicial branches of government, students learn how a republic actually functions. Student will also study state and local government and be better able to understand their local systems, which will develop a better understanding of and have a greater appreciation for American philosophy and ideology.

**Economics --- Required      ½ credit**

Student will learn the basic economic principles and give a clear understanding of free-enterprise capitalism, individual moral responsibility, work ethic. The course strengthens the link between economic freedom and the political and individual freedoms that American's enjoy.

**Chemistry --- Required      1 credit****Lab included**

Presents recent chemistry-related research and developments, relevant dominion science problems with stimulating discussion starters. Chemistry-related career features inform students of opportunities to serve God and mankind through science.

This lab promotes analytical thinking and inductive problem-solving skills through experiments that reinforce text concepts. Thirty-five labs thoroughly cover the course and allow students to gain skill in using all of the standard chemistry laboratory equipment.

**Pre Calculus --- Required      1 credit**

Equips the student for college with pre calculus skills. Lessons emphasize functions, graphing, and trigonometry throughout and introduces differential calculus.

**Bible --- Required Elective      1 credit****The Pauline Epistles – Galatians, Ephesians, Philippians, Colossians**

Verse by verse study, emphasizing the importance of literal interpretation and application to daily living. This study examines Paul's life ministry and ultimate martyrdom and its impact on Christianity. Verse memorization is required.

**Yearbook Staff --- Elective      ½ credit**

Students gather pictures and ads to compile the yearbook using a computer program from our portrait company. Photography, editing and creative design are used by the students. This is a student led class.

**Personal finances and careers –Elective      ½ credit**

Course study prepares the students to launch into careers as well as college. The FAFSA and scholarship applications are worked on in class.

**Also available for any year****Family Life Skills --- Elective      1 credit**

This course prepares students for roles present and future such as raising children and relationships with friends, spouses, parents, in-laws, and caregivers. The basic and emerging challenges of the modern home are addressed.

**Consumer Math --- 1 credit**

Prepare student for making financial decisions with instruction about credit card charges, taxes, interest on loans and savings, personal banking and costs of transportation, food, clothing, utilities, insurance and filling our tax forms.

**Business Math --- 1 credit**

Students learn the mathematics concepts needed to operate a business, make investments, successfully manage family finances, and apply the principle of good stewardship. Students easily master math concepts and skills through the many problems in each section, while the variety of word problems tests their knowledge of concepts and skills and stretches their mathematical ability. Students also use their skills to solve real-life computing problems.

**Physics -- 1 credit**

Features the foundations of electricity, magnetism, and optics and stresses a logical problem solving approach with many examples and diagrams. Student will put math skills to use in a derivative approach. Two years of algebra recommended as a prerequisite.

**Teaching Aide -- Elective      ½ credit**

This course is designed for those going into the education field. It allows the student to observe in a classroom the methods at which a teacher handles the classroom. The student will help reinforce the training and learn about maintaining discipline in the classroom.

**Spanish III – Elective      1 credit**

Further develops students' mastery of vocabulary, oral communication, and grammatical structure with a special focus on verb forms.