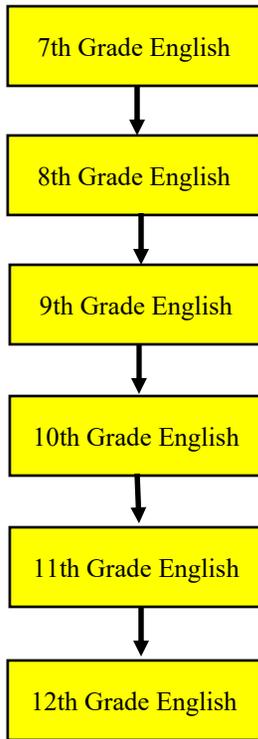


**Harvest Baptist Academy
Natrona Heights, PA**

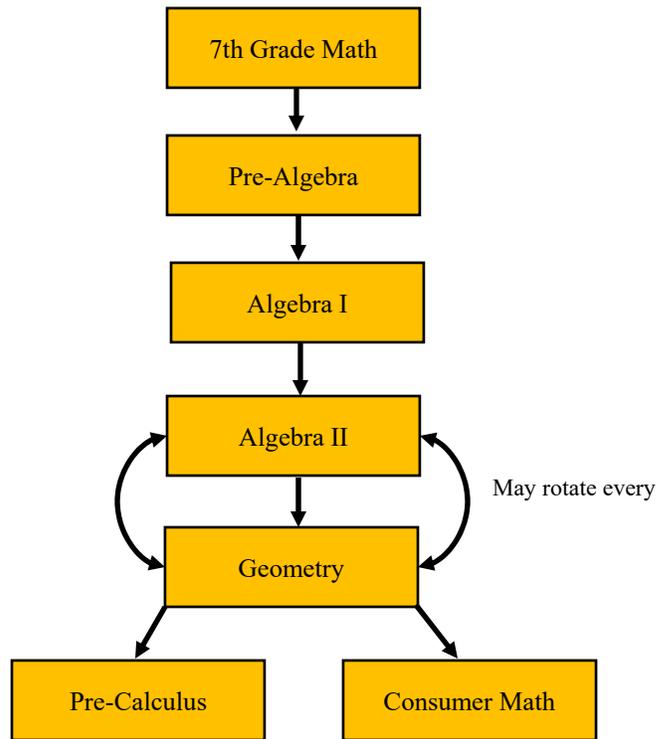
**Course Catalog
2015-2016**

CORE SUBJECTS FLOW CHART

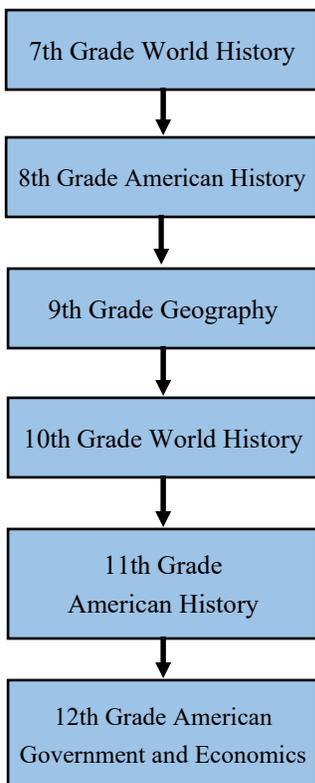
Language Arts



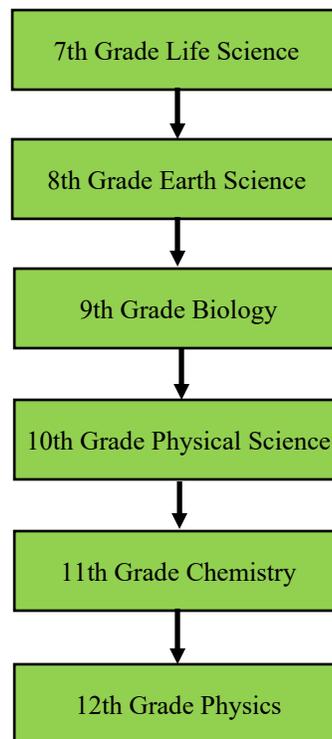
Mathematics



Social Studies



Science



COURSE OFFERINGS BY SUBJECT

LANGUAGE ARTS

English (7th grade)

Seventh grade English develops important interpretive skills in reading and comprehension as well as communicative skills in writing and speaking. These skills will be developed by focusing on vocabulary building, grammar, and writing skills, and analyzing important literary techniques. Students will explore elements of poetry, essays, plays, and short stories, using literature from authors including Charles Dickens, Laura Ingalls Wilder, Rudyard Kipling, John Bunyan, John Greenleaf Whittier, Henry Wadsworth Longfellow, and Emily Dickinson. Students will learn to read different genres of literature through the lens of a Christian worldview, understanding truths about God, his world, and his people.

English (8th grade)

Eighth Grade English develops important interpretive skills in reading and comprehension as well as communicative skills in writing. These skills will be developed by focusing on vocabulary building, grammar and writing skills, and analyzing important literary techniques. Students will explore different genres of literature through novels and short stories by authors such as Agatha Christie, Pearl Buck, Carl Sandburg, Washington Irving, and Robert Louis Stevenson. Poetry recitation and memorization will also be worked on throughout the course. Students will learn to read different genres of poetry and literature through the lens of a Christian worldview.

9th Grade English (1 credit, full year course)

English III, a full-year ninth grade course for one credit, includes grammar and composition, literature, vocabulary, spelling, and poetry. In grammar and composition, students are taught the fundamentals of grammar; they learn how to identify and correctly use clauses, phrases, and parts of the sentence. Writing is emphasized throughout the curriculum and students are taught how to use the writing process to complete short writing assignments and longer assignments such as book reviews and a full-length research paper. The literature book is Themes in Literature, which includes short stories, poems, and excerpts from works that teach Christian values. A variety of writing activities are included throughout the text. The vocabulary/spelling/poetry text teaches students practical spelling keys and rules as well as vocabulary words. Exercises which teach the correct usage of the vocabulary words are included with each lesson. Ten poems are included for memorization.

10th Grade English (1 credit, full year course)

English IV, a full-year tenth grade course for one credit, includes grammar and composition, literature, vocabulary, spelling, and poetry. The grammar book expands on fundamentals such as sentence structure and parts, which are learned in English III. Through writing book reviews, paragraphs, essays, and a research paper, students are taught to write clearly and effectively. The literature text for English IV is World Literature. This book includes poetry, prose, and classics by authors from around the world. Literary devices such as character development, plot, theme, setting, and imagery are illustrated. In addition to the World Literature text, the literature curriculum also includes units on Julius Caesar and Silas Marner. In the vocabulary/spelling/poetry text, students are taught not only the definitions and parts of speech of words, but also the etymology, synonyms, antonyms, and related forms. Students learn how Greek and Latin prefixes, roots, and suffixes can be used to determine word meaning. Vocabulary exercises aid in the students' comprehension of correct usage. The first groups of spelling words taught illustrate spelling rules, and subsequent lists are comprised mainly of commonly misspelled words. Students memorize ten poems (many by famous authors) throughout the year.

11th Grade English (1 credit, full year course)

English V, a full-year eleventh grade course for one credit, includes grammar and composition, literature, vocabulary, spelling, and poetry. The grammar portion of the curriculum uses the Handbook of Grammar and

Composition, an excellent tool for writers. The handbook thoroughly covers grammar, usage, and mechanics, and teaches the application of these elements in the writing process. Students write a variety of compositions, including essays and a research paper. Along with the handbook, students use a workbook which includes exercises that reinforce the rules and concepts taught and explained in the handbook. The literature text for the course is American Literature, which covers a variety of works by authors such as Washington Irving, Mark Twain, and Robert Frost. The book contains poems, short stories, dramas, essays, and sermons. The teachings of Transcendentalism and other twentieth-century teachings are analyzed in light of the teachings of the Bible. In addition to the American Literature text, students also read and study *The Scarlet Letter*. The vocabulary/spelling/poetry book includes spelling lists, vocabulary studies, and exercises which reinforce the proper use of the vocabulary words. Greek and Latin prefixes, roots, and suffixes are taught so that students can learn to determine meanings for words. Nine poems, including some by famous American authors, are memorized during the year.

12th Grade English (1 credit, full year course)

English VI, a full-year twelfth grade course for one credit, includes grammar and composition, literature, vocabulary, and poetry. The grammar portion of the curriculum uses the Handbook of Grammar and Composition, an excellent tool for writers. The handbook thoroughly covers grammar, usage, and mechanics, and teaches the application of these elements in the writing process. Along with the handbook, students use a workbook which includes exercises that reinforce the rules and concepts taught and explained in the handbook. An emphasis is placed on writing correct and effective sentences. The literature text for the course is English Literature, which is an anthology that follows the development of English literature from the early Anglo-Saxon period through the twentieth century. Major literary figures such as Chaucer, Foxe, Spenser, Marlowe, Donne, Defoe, Shakespeare, Milton, Tennyson, and Dickens are featured. In addition to the English Literature text, students read and study *Macbeth* and *Pilgrim's Progress*. The vocabulary/poetry book involves in-depth vocabulary studies and exercises that reinforce the information learned. Greek and Latin prefixes, roots, and suffixes are taught to enable students to derive meanings of words. Ten poems, including works by authors such as John Donne and Elizabeth Barrett Browning, are included for memorization.

SOCIAL STUDIES

World History (7th grade)

This course is a study of the events of world history beginning with Creation and continuing to Modern History. The course provides an overview of the elements that comprise world studies: culture, geography, and history. The study continues by looking at the revival of towns, trade, and learning. This leads the focus to historically and spiritually impactful periods such as the Renaissance and the Reformation. Time is devoted to ancient civilizations and the impact they had on early history, the Age of Exploration, and subsequent development of the New World. French and English history, the Middle and Far East, colonial Africa, the rise of socialism and totalitarianism in Europe, the world wars, and many other locations and events leading up to present day comprise the remainder of the course.

American History (8th grade)

This course provides the history of America from the 1490s to the present with special emphasis on the personalities and events that shaped American character. A variety of illustrations, maps, and photographs invite students to explore the past as they read this narrative account of U.S. history. Through the story of America's rise to greatness, students learn to recognize the hand of God in history and to appreciate the influence of Christianity in government, economics, and society.

9th Grade Geography (1 credit, full year course)

Cultural Geography is a complete survey of geographic principles and regions. A strong emphasis is placed on developing map skills. The content focuses primarily on understanding the influence of land, climate, and resources on the history and culture of particular nations. The students learn how geography is integrally related to government, economics, religion, and culture of various people groups.

10th Grade Geography (1 credit, full year course)

World History and Cultures is a detailed study of mankind's development from creation to present day. The course includes an in-depth study of the Greco-Roman culture and its influence in the development of western Judeo-Christian civilization. It also presents Asian and African cultures from ancient times to modern day. Students learn to evaluate the underlying influences of political events and economic conditions in history. Students also learn to evaluate topics such as language, art, evolution, humanism, etc. from a biblical worldview.

11th Grade United States History (1 credit, full year course)

United States History is a chronological survey of American history from European discovery to the present. The course includes the influence of physical geography on American history and development particularly within the 18th and 19th centuries. Students learn how various religions, especially Christianity, contributed to America's heritage and system of values. The course includes an in-depth study of the development of the Constitution and American system of government as well as the development of the free-enterprise economic system.

12th Grade American Government and Economics (1 credit, full year course)

American Government

American Government provides students with an educational foundation needed to become informed, responsible citizens and voters. The course includes a detailed study of the Constitution and the rights and privileges of the American people. Students learn about federalism and the roles of state and local governments. The text concludes by focusing on the opportunities and responsibilities of American citizens to get involved in their political system.

Economics

Economics is the study of the choices that societies make regarding the production, distribution, and consumption of goods. This course explains the economic principles of production, supply and demand, competition, inflation, and saving. Students learn how to identify the link between economic freedom and political and individual freedom by encouraging free-enterprise capitalism and moral responsibility with money. The course also provides students with an understanding of biblical principles of stewardship, responsibility, and integrity in handling their personal finances.

MATHEMATICS

Math (7th Grade)

This course covers a variety of topics – some of which are review and others which are introduced to the student in this text. This course not only strives to prepare the student for his advanced math courses such as algebra and geometry, but also allows the student to learn practical concepts such as banking and reading recipes. One main emphasis of the course is for the student to master percentages. Each unit contains a number of word problems that challenge the student's ability to think through a problem. The course concludes with units that teach the student to identify geometric figures, solve algebraic equations, and find trigonometric ratios when working with right triangles.

Algebra ½ (8th Grade)

The Pre-Algebra course is an introduction to basic algebra concepts and a review of arithmetic algorithms. The course is designed to help students overcome weakness in preparation in mathematics, emphasizing the concepts necessary to be successful in Algebra I and II. An integral part of this course is to help students develop good mathematical study skills and learning strategies. The course begins with a brief review of the number system and operations with whole numbers, fractions, decimals, positive and negative numbers, ratios, percents, and proportions. The course eventually covers statistics and probability, radicals, geometry, area and volume, and polynomials.

Algebra I (Grade 9, 1 credit, full year course)

This course provides traditional math instruction while allowing the students to communicate and explore content in ways that illuminate the transitions between concrete and abstract thinking. This course presents algebra topics in a logical order with detailed examples to promote student comprehension. Numeric and algebraic expressions are simplified before students solve and graph linear equations, inequalities, and their systems. Polynomials, rational expressions, radicals, and solving rational and quadratic equations are also covered. Special features focus on probability, statistics, historical figures, and scriptural connections.

Algebra II (Grade 10, 1 credit, full year course)

This course not only challenges the student's knowledge of concepts that were taught in Algebra I, but also instructs the student in areas that are fundamental to being prepared for SAT testing as well as Pre-Calculus. Review topics include, but are not limited to, solving linear equations, graphing lines, and solving systems of equations. The student is challenged throughout the book on his ability to factor trinomials as this is a major theme in the text. The student is introduced to topics such as graphing quadratic equations, solving logarithmic equations, and using trigonometric ratios to solve triangles.

Geometry (Grade 11, 1 credit, full year course)

This course challenges the student's ability to reason with the text's main emphasis being placed on the completion of proofs (a logical step-by-step progression that starts with a given piece of information and arrives at a conclusion). Another area of importance is the area of constructions, teaching the student to be precise when working with a compass and straightedge. Other topics addressed include finding area and volume of various polygons and polyhedra and finding measures of angles when parallel lines are present and when they appear in circles.

Consumer Math (Grade 12, 1 credit, full year course)

The Consumer Math course instructs students about credit card charges, taxes, interest on loans and savings, personal banking, and costs of transportation, food, clothing, utilities, and insurance. It also includes instruction about filling out tax forms. The course helps to develop critical thinking skills and will emphasize biblical stewardship of finances. Students learn to make informed decisions in their personal financial decisions such as budgeting, retirement savings, home purchases, and loans.

Pre-Calculus (Grade 12, 1 credit, full year course)

This course not only challenges the student's knowledge of previously-learned trigonometric concepts, but also instructs the students in areas that are fundamental to progressing in the realm of calculus. Review topics include, but are not limited to, applying trigonometric ratios to solve practical word problems as well as solving different types of equations ranging from polynomial, logarithmic, rational, radical, and trigonometric. Other review topics include graphing a variety of functions including exponential, trigonometric, linear, quadratic, and higher-degree polynomials. The student is introduced to topics such as polar graphing, matrices, sequences, limits, and derivatives.

SCIENCE

Life Science (7th Grade)

The life science curriculum is a course that emphasizes God's design and organization of living things. The students are introduced to nature seen in their own backyard and how to observe and ask questions with an emphasis on the scientific method. The course continues with a study of plants, human anatomy and physiology, Creation, classification, vertebrates, arthropods, microbiology, and ecology. The students receive detailed instructions on using the scientific method to test a hypothesis and are responsible for designing their own science fair project. Demonstrations and hands-on labs are used throughout the year to illustrate concepts learned in class.

Earth Science (8th Grade)

The earth science curriculum is a course designed to emphasize the earth and universe God created and how each is a testimony to His greatness. The focus of study includes geology, the fossil record, oceanography, weather, astronomy, and environmental science. The course includes demonstrations and hands-on labs that emphasize concepts taught throughout the year. The students receive detailed instructions on using the scientific method to test a hypothesis and are responsible for designing their own science fair project.

Biology (Grade 9, 1 credit, full year course)

This course provides the introduction to basic biological techniques, principles and reasoning. Students are introduced to basic organic chemistry, cytology, and genetics. The students study the various kingdoms of life in a cumulative as well as comparative format with more in-depth treatment of the animal kingdom, particularly vertebrates and especially human biology. Laboratory investigations take place roughly bi-weekly, centering on topics covered in class. Students develop and execute a science fair-type research project, which is presented publicly during the second semester.

Physical Science (Grade 10, 1 credit, full year course)

This course provides the introduction to topics in physics with some presentation of chemistry concepts. In particular, principles of mechanics, energy, work, simple machines, thermodynamics, electricity, magnetism, wave phenomena, sound, electromagnetic spectrum, and optics will be presented. Some chemistry, including an introduction to atomic models, bonding, mixtures and solutions, is taught, but this gets less emphasis than the physics concepts. Laboratory investigations take place roughly bi-weekly, centering on topics covered in class. Students develop and execute a science fair-type research project, which will be presented publicly during the second semester.

Chemistry (Grade 11, 1 credit, full year course)

This course explores the foundations of chemistry with an emphasis on the Christian perspective and the importance the Bible places on science. Because God's creation displays order and mathematical patterns, math is used as a tool to show God's perfect design in how atoms and molecules behave. Topics covered include matter, measuring and calculating, atomic structure, elements, chemical bonds, bond theories, chemical reactions, and the properties of gases, solids, liquids, and solutions. Laboratory safety is covered, and labs which are designed to correlate with the topics being studied in class are performed. Emphasis is placed on problem solving.

Physics (Grade 12, 1 credit, full year course)

This course provides greater development of topics that were presented in physical science. Students are presented with the concepts of vectors, scalars, classical mechanics, kinematics, dynamics, circular motion, Newton's Laws, work, energy, momentum, simple machines, periodic motion, thermodynamics, electricity, magnetism, sound, electromagnetic spectrum, and optics. Some concepts of modern physics, including relativity and nuclear physics, are introduced. Laboratory investigations take place roughly bi-weekly, centering on topics covered in class.

Alternately to the lecture-centered lab investigations, students participate against other class teams in team-based engineering design projects and competitions.

ELECTIVES

Adobe/Photoshop (Grade 9, 1 credit, full year course)

Students are guided through primarily three Adobe applications: Illustrator (vector graphics), Photoshop (raster graphics), and In Design (desktop publishing). Some exposure is also be given to Dreamweaver (web site design and publishing). Students have weekly in-class assignments that center on the topics covered during the week. Occasionally, students are given special “in-house” projects that benefit school programs (flyers, signs, brochures, etc.). Since not everyone has access to these programs outside of school, it is intended that all assignments be completed during class time, and ample time is thusly allotted.

Spanish I (Grade 10, 1 credit, full year course)

Spanish I, a full-year tenth grade course for one credit, introduces students to the basics of Spanish grammar, sentence structure, pronunciation, and vocabulary. The course uses a grammar text, *Por todo el mundo*, as well as a vocabulary manual. Students learn to write, speak, and understand basic Spanish in everyday situations and in opportunities to be a witness for Christ. Cultural lessons, oral reading exercises, and Bible verses are incorporated into the text.

Spanish II (Grade 11, 1 credit, full year course)

Spanish II, a full-year eleventh grade course for one credit, builds on the basics learned in Spanish I. In this second course, students learn more advanced conversational skills and grammar, including additional verb tenses and uses of object pronouns. Students develop the ability to use an expanded vocabulary in practical situations and conversations. The text book used are *Más que vencedores* and a corresponding vocabulary manual.

Computer (Grade 12, 1 credit, full year course)

Students are guided through use of four basic Microsoft Office programs: Word (word processing), Excel (mathematical spreadsheets), PowerPoint (presentation software), and Access (database). Students have daily in-class assignments that center on the topic covered that day. At the end of each chapter, students do end-of-chapter activities which require them to recall procedures that they practiced since the beginning of that chapter. Since not everyone has access to these programs outside of school, it is intended that all assignments be completed during class time, and ample time is thusly allotted.