

**SUNRISE CHRISTIAN ACADEMY**  
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## **HIGH SCHOOL COURSES AND CURRICULUM OVERVIEW**

### **BIBLE DEPARTMENT**

Because man is created in the image of God for the glory of God, we endeavor to teach the inspired, inerrant Word of God. We adhere to a literal interpretation of the Scripture from the six days of creation continuing to the second coming of Christ including the rapture, the tribulation, and the Kingdom of God. During the Junior High and Senior High years, we instill the basic doctrines of the Bible, provide a clear understanding of the Gospel and demonstrate the importance and practicality of applying the Word of God to daily living. In order to develop students who will be "a light in a dark world", God's Word must be taught over a period of years. As students progress through the high school years, the fundamental teachings include the following: The Life of Christ (on a high school level), Biblical Patriarchs and how God dealt with mankind throughout the distinct dispensations, A New Testament Survey, The Deity of Christ, and How To Do Individual Studies of Books and Topics in the Bible. These classes culminate in utilizing all the information through apologetics. High school Bible classes accent the actuality and reliability of God's truth for modern living. Because we have a large population of international students, it is important that their Bible class is directed toward the Gospel of Christ. God's Word is the only universal truth that meets the need of the hearts and minds of all people. Having them here is an advantage for our local students who are able to witness the reality of God's truth as the only answer for the activities, issues, and pressures of life.

#### **Freshman Bible** - (2 semesters, 1 credit)

This course is a study of Genesis. It examines the Book as a literal truth that details the account of creation as well as the history of man and specifically God's dealing with him. Students not only learn the facts that are provided by the book of Genesis but how God deals with man in light of His plan for man. Such questions posed in the course include "Does the way God dealt with Adam, Noah, or Abraham have anything to do with the way God deals with me? What specific lessons can we learn about God and, most importantly, how will that change my life? Students will look at how New Testament teachings are tied to Genesis. Students are encouraged to participate in class and opportunities are taken to also allow students to participate in small groups for role- playing, personal interaction and discipleship. Weekly memory verses help students hide God's Word in his heart.

#### **Sophomore Bible** - (2 semesters, 1 credit)

This course is an introduction to the Themes of the Old Testament. Students will become better acquainted with the books of the Old Testament and its authors, as well, there will be an introduction to the biographies of its characters and discover God's plan for each in a thematic fashion. This course is not a verse by verse study of the Bible but rather an introduction to studying for the purpose of sharing with others and growing spiritually.

**Junior Bible** - (2 semesters, 1 credit)

First Quarter is a study of Personal Evangelism. The course purpose is to instill the need and urgency of evangelism to a lost and dying world. Students will discuss and practice several different methods of personal evangelism. Second Quarter is a focus on spiritual growth and responsibilities of each gender including character traits and roles. Third and Fourth Quarters find students learning more about the life of Christ according to the Gospels through Acts and Paul's epistles. The semester is completed with a study of eschatology as found in Revelation

**Senior Bible** - (2 semesters, 1 credit)

This course is an introduction to contemporary philosophical world views. Students will study Christianity, Islam, Marxism, Humanism, New Age, and Postmodernism in the following areas: theology, philosophy, ethics, science, psychology, sociology, political science, economics, law and history. After completing this course students should be able to:

1. Articulate a factual foundation for their chosen worldview
2. Develop basic skills of disciplined worldview inquiry
3. Understand the similarities and differences between the following world views: Christianity, Islam, Secular Humanism, Marxism-Leninism, Cosmic Humanism, and Postmodernism.
4. Apply an understanding of worldviews in the areas of Biblical studies, the natural sciences, the social sciences, and the humanities

**Honors Bible** - (2 semesters, 1 honors credit) by application and selection

Students are selected for Honors Bible. Application is made by fulfilling the research and essay requirement. Students should be prepared to write well and participate in discussion. Topical studies on 4-year rotations are also explored in light of current events. Service projects that teach cooperative effort for the good of others are a major part of the course.

**Prep Bible Class** - (2 semesters, 1 GPA credit)

This course is taken by the post-graduate students as a part of the "year 13" program. In the Post-graduate Bible class, we are studying the different doctrines of the Bible. Through this study, we are learning to form a Biblical worldview. Some first semester topics answer the questions "Why can we trust the Bible? Who is God? Who created mankind? Who is Jesus?" During the second semester, address topics such as faith, temptation and testing, prayer, and victorious Christian living.

**COMPUTER and TECHNOLOGY STUDIES**

Technology is innovation by mankind that can be used either for good or evil. Computer software, applications and the Internet are an essential part of modern technology that can be harnessed to prepare students for success in service to God and others. This includes career, ministry, and the spread of the Gospel.

**Word Processing (2 semesters, 1 elective credit)**

Word Processing is designed to teach students how to type quickly and correctly. In order to pass the class, by the end of the year, students will be required to have reached a typing speed of thirty words per minute by touch (without looking at the keyboard). Students will be given projects in each to familiarize them with creating documents and presentations. Students will also understand the proper use of technology and social media as relating to ethics and the Christian faith. Instruction will be accomplished using lecture, technology-aided demonstration, and student practice. Students will be given assessments on typing skill weekly and other topics when completed.

**Computer 1 (2 semesters, 1 Computer Science credit)**

Prerequisite: Junior High or High School word processing course.

Computer 1 is an in-depth study of three main applications in the Microsoft Office suite: Microsoft Word, Microsoft Excel, and Microsoft PowerPoint. This class goes beyond word processing or knowledge of computer processes. It dwells solely on the programs that make up the Microsoft Office Suite of software. A recent version of Microsoft Office will be used so that students will be armed with an up to date, real life skill set when they complete the course. Students will be instructed in developing spreadsheets, documents, and presentations. This instruction will be accomplished using lecture, demonstration, and student demonstration and repetition. Assessments will be given for every chapter, and projects given at the end of each unit to allow students to demonstrate real life skills in each of these applications.

**Graphics and Web Design (2 semesters, 1 elective credit)**

Prerequisite: Computer 1

Web Design and App development is a beginner's look into the world of media and software development. Students will learn about the "skeleton" (code) of programs that they use every day, and be given an introduction into how they can build HTML5 and Objective C code themselves. Developer programs like Apple XCode® and Microsoft Expression Web® will assist students in the design of websites and apps and show how to integrate drag and drop design with actual coding. Assessments will be in the form of tests, quizzes, and projects (websites and apps that the students create).

**ENGLISH DEPARTMENT**

Because Jesus is Himself the Word, a Biblical perspective will be an essential part of using language to present who we are and how we relate in the world. Language is a very special gift from God, which enables us to share our soul to touch someone else's spirit for the glory of God. Through great pieces of literature, language helps a person to understand others in differing times, places, and circumstances so that we can see and understand God's overall plan. Literature contains archetypes that are universally understood. Classic truths can be analyzed and built upon from the Christian perspective increasing critical thinking skills while sharpening skills in reading, writing, and speaking. It is the word that we hide in our hearts that teaches us the nature of God and how to relate that knowledge to the world. Language is a powerful tool.

**English 9 (2 semesters, 1 English credit)**

This course includes reading different genres of literature, including fiction and nonfiction, short stories, as well as poetry. Frequent writing assignments develop student's creative expression as well as their critical thinking skills. Introduction to the high school research paper and a completed work is a major part of the course. Selected works of literature provide analysis and writing opportunity. Understanding the theme, character motivation and cultural context will give insight to the reader. Grammar, mechanics, usage, and vocabulary also are included with frequent evaluation to assure proficiency as appropriate. Class discussion will enhance the student's understanding of life issues and Biblical principles used throughout the curriculum. Extended character analysis is the research topic. The student will demonstrate the ability to analyze a character in a classic novel and synthesize information in a comparison of that character to a Biblical parallel. This will be a complete research paper following the MLA handbook, indicating an understanding of all of the steps necessary. Two class book studies are required along with individual quarterly book reports.

**English 10 (2 semesters, 1 English credit)**

Sophomores will identify and understand both basic and advanced elements of literary analysis through the study of poetry as well as various pieces of prose, including short stories as well as drama and novels from around the world. Each will be examined for values and worldview. Students will continue working on their writing skills as they have opportunity to address correct grammar and advanced composition techniques. The student will work comfortably with long sentences and complex clauses while writing about class book studies. Students are encouraged to conceive of writing as a craft to be practiced and a process to be followed. Three-part construction of a quality essay will demonstrate a consistent flow of ideas and an ability to maintain the directed focus of the thesis. Literary analysis is introduced as the means for the student to identify an understanding of the figurative language techniques as the art of literature. The research topic examined is a spiritual life issue. Organization of research information will follow the MLA handbook, and the 10<sup>th</sup> grade focus will necessitate the use of a Bible concordance, commentary and other biblical reference materials. Two class book studies and individual quarterly book reports are required.

**English 11 (2 semesters, 1 English credit)**

Junior English takes a historical approach to the study of American literature from the Colonial Era to the 20<sup>th</sup> Century. Students will learn the major literary themes and characteristics that make our national literature unique and become familiar with the most notable American wordsmiths. Focused on developing a sense of the ties that bind the disciplines of history and literature, the course is designed to help students improve their critical thinking skills through interpretation, analysis, and discussion of selected texts. Students will learn to recognize literary devices/terms employed in prose, poetry, and drama. Correct grammar usage and mechanics of writing and speaking are emphasized throughout the curriculum. Through frequent writing assignments, both formal and informal, students continue to implement and refine their skills and knowledge as they learn to value writing about literature as a means of making sense of what they read and think. The strong focus on critical thinking requires that students concentrate on close reading of texts, not only to gather the extensive textual evidence necessary in support of the assertions they make in discussion, but which will substantiate the positions they might take in their focused written products. Required writing assignments will include a formal, documented MLA style research paper that will further develop their abilities to think and write analytically. Although the emphasis will be on reading and responding to literature, preparatory work before beginning a novel unit will include research about and discussion of the author and the influences that shaped his/her life.

**English 12 (2 semesters, 1 English credit)**

English 12 is a survey of the British Literature from Anglo Saxon to present day. The student will learn major themes and worldviews of each period becoming familiar with major British authors. The course is designed to exercise critical thinking ability. Students will learn to evaluate information by lining up ideas with the standard of God's Word while applying selected texts to life issues. Essay development will be the major evaluation of the student's ability to draw complex conclusions from literature and to recognize biblical truth in life issues. Essays are designed for each unit as well as an end project of an author biography, individual book study, and prepared lesson for the class. Individual teacher directed/student led discussions will help students to process information and present claims effectively. The first semester research paper will be focused on a persuasive controversial social issue. The research paper will demonstrate an accurate use of the MLA handbook and also show a quality method for the persuasive style. There will be a quarterly exercise in apologetics practicing a questioning technique for revealing truth and requiring the ability to work with others.

**Great Books ( 2 semesters, 1 Honors elective credit)**

Prerequisite: B in English, Juniors and Seniors (Sophomores by teacher exception)

Students will read complex works by authors of literary significance and analyze them in terms of themes, character motivation, and cultural /philosophical contexts. Students will also write extensively assuring student-mastery of literary concepts and written expression.

**Creative Writing (2 semesters, 1 elective credit)**

Creative Writing offers the opportunity to explore and develop the imaginative writing craft.

Emphasis is given to understanding plot, characterization, dialogue, and setting in a story.

Introducing variations in syntax, sentence patterns and figures of speech enables the young writer to experiment with style and technique. In addition to fictional story writing, poetry and personal essay are studied.

**FINE ARTS****Art** (2 semesters, 1 Fine Art credit)

Because God creates man in His image and likeness, man has a God-given love of beauty and a desire to create. The art courses will emphasize the creative process through the use of a variety of drawing and painting mediums, pen and ink, printmaking, and three-dimensional materials. Emphasis is on learning to see as an artist sees and to appreciate what God has created both around us and in us. Students will also learn to compare, contrast, and critique art from different periods in History such as Egyptian, Roman, Greek, Byzantine, Medieval and Modern influences.

**Advanced Art**, (2 semesters, 1 Fine Art credit)

Prerequisite: Approval of art instructor and limited to students who are preparing portfolios.

**Instrumental Music** (Band and Orchestra) (2 semesters, 1 Fine Art credit per year)

Prerequisite for band: Junior High instrumental program or private lessons and audition

Two concerts are presented each year as well as participation in one competition.

**Vocal Music** (Choir) (2 semesters, 1 Fine Art credit per year)

Prerequisite: For ensemble 1 prior year of vocal study and audition

Two concerts are presented each year as well as participation in competitions. ~~Vocal~~

~~Ensemble is a performance group, which travels to perform at local events.~~

**FOREIGN LANGUAGES**

Man's ability to communicate with others through the spoken and written word is God given.

Foreign language study enables the Christian student to understand cultures other than his own, to form relationships with people of those cultures, and thus to share the truth of the gospel of Jesus Christ in a God-glorifying manner and participate effectively in a global society.

Years 1 and 2 are 1 credit each for Foreign Language requirement. Years 3 and 4 are 1 elective Honors credit each.

Prerequisite for all languages: Entering Freshmen must have received at least a B in English.

**Chinese 1 and 2** - Not currently offered

~~These courses enable students to communicate in Mandarin Chinese and gain knowledge and understanding of the Chinese culture. Knowing Chinese, the most populous language, will present more opportunity for students to share the gospel in this culture. The use of Bible verses will assist the student in understanding the grammar and structure of the language. Students will learn Chinese Pinyin, recognize and write the most common Chinese characters and understand that some of them have Biblical meanings. Students will learn how to construct basic sentences and paragraph writings in Chinese. A basic knowledge of the Confucian culture and how it can be related to biblical philosophy will also be taught. Class discussions, Internet searches, presentations, quizzes and tests will be given as assessments.~~

**French 1 and 2**

French 1 introduces students to the French language. Students will learn the language through reading, writing, listening, and speaking. Present tense of some verbs along with future tense will be introduced. A series of vocabulary units will enhance the students' ability to write the language and make coherent sentences. Students have a Bible verse for each chapter to memorize. Students also learn the culture by reading about a missionary family in France.

French 2 continues the learning of the French language from French 1, with emphasis on past tense, direct object pronouns, telling time, and other present tense verbs. More complex compositions are required as students' language skills advanced. Students demonstrate their mastery of the language by writing paragraphs, stories, reading chapter books, and speaking French more fluently.

**Latin 1, 2, 3, 4**

Vocabulary building and grammar is a necessary component of studying Latin. It is the main focus of Latin 1 and 2. Particular importance is given to root word study. In upper Latin, original works such as magazines and newspapers are reviewed for comprehension. Students will also create original works for targeted audiences. Latin 3 and 4 students receive Honors elective credit.

**Spanish 1, 2, 3, 4**

The first two years are dedicated to vocabulary building and grammar. The third year adds advanced reading and writing skills. The fourth year concentrates on oral skills, literature, as well as continuing writing. Using Bible verses and stories, students in Spanish work on communication skills. Students who complete 3 and 4 may test out of College Spanish I and receive Honors elective credit.

**HISTORY DEPARTMENT**

The Bible is our earliest source of History. It reveals the origin of all creation and the purpose of civilization. The History Department is committed to providing students the opportunity to understand History within the context of the Bible and the social, cultural, political, and international environments created by man. Basic knowledge of Historical events and the critical thinking skills needed to analyze these events will be presented within the context of God's truth. The goal is to develop a God-centered frame of reference for world events in order to understand the past and how it affects our current lives. Students will be able to see that God planned all of human History and will clearly see His hand working through events in History to accomplish His purpose, redemption. A variety of methods will be used to engage students with different learning styles and encourage an

active role by students in their own learning. Teachers in the department will play a pivotal role as they encourage students to develop an interest in the past and develop a Christ-centered worldview.

### **World History/Geography (2 Semesters, 1 History Credit)**

High School World History is a survey of World History from creation to present. First Semester topics will include discovery, creation, the development of ancient civilizations, the rise and fall of Rome and the making of Medieval Europe and the geography associated. Second semester will begin with a revival of trade and continue to the present and the geography associated. Each student should have a basic understanding of certain historical facts and principles in the founding and development of civilization. They will recognize changes in politics, economics, religion, society, ideas, and art in each major civilization and period. They will be able to evaluate major events recognizing the causes and outcomes. They will also gain practical skills in reading and interpreting maps and timelines, analyzing key documents, and defining and using basic terms from History. Students should expect daily reading and written assignments, video questions, worksheets, map exercises, quizzes, tests and projects. A mid-term and end-term exam will also be given.

### **Government (2 Semesters, 1 History Credit)**

The class is designed to give students a thorough knowledge and workings of the American Government. The students will be taught from a conservative, Christian perspective. Students will learn that it is the responsibility of every citizen to have a proper understanding of human government and understand how God expects us to build and effectively maintain society according to His principles. Personal character will be stressed, as they will see that the spiritual temperature of a people determines their success as a nation. Students will be taught to be good stewards and actively participate in our unique republican form of government. Students will achieve a working knowledge of our Constitution, amendments and major court decisions that have defined our country. Students will be assessed by weekly grades, a quiz after each chapter and a final at the end of each semester. They will also do a Mock Council, Mock Congress and Mock Trial to learn how the different branches of government operate. Field trips to the Courthouse, Topeka Capitol and City Hall are part of their learning experience.

### **United States History (2 Semesters, 1 Social Science Credit, 1 Honors History credit for Sophomores)** Prerequisite for 10<sup>th</sup> grade is 3.5 cumulative gpa

Each student should have a basic understanding of certain historical facts and principles in the founding and development of the United States. They will recognize changes in politics, economics, religion, society, ideas, and art in each major period. They will be able to evaluate major events recognizing the causes and outcomes. They will also gain practical skills in reading and interpreting maps and timelines, analyzing key documents, and defining and using basic terms from US History. This class is a survey of US History from discovery to present. First Semester topics will include discovery, colonial development, War for Independence, War of 1812, and the growth of American Society. Second semester will begin with the Civil War and continue to the present. Students should expect daily reading and written assignments, video questions, worksheets, quizzes, tests and projects. A mid-term and end-term exam will also be given.

### **Western Civilization 1, 2 (2 Semesters, 1 Honors elective credit)**

Prerequisite: 3.0 GPA

The college level course presents the story of God's creation through the development of Western Civilizations. Students will develop a God centered frame of reference and clearly see God's guiding hand through events in the development of the civilizations studied. Each student will have a college level understanding of certain historical facts and principles in the founding and development of Western Civilization. They will recognize changes in politics, economics, religion, society, ideas, and art in each major civilization and period covered. They will be able to evaluated major events

recognizing the causes and outcomes. They will also gain practical skills in reading and interpreting maps and timelines, analyzing primary documents, and defining and using basic terms from History. Topics covered include but are not limited to the following: creation, selected ancient civilizations, the rise and fall of Rome, the making of the Medieval Europe and the Renaissance, development of the 17<sup>th</sup> C. constitutional monarchy in Great Britain and continue to the present. Students should expect daily reading assignments, research of selected topics, panel debates and discussions, map exercises, quizzes and tests. A mid-term and end-term exam will also be given and the end of each semester.

### **Cold War History (2 semesters, 1 elective credit)**

This course picks up where WWII left off by tracing issues left over from 1945, along with the differing views of superpower ideologies. Emphasized throughout is how Soviet communism and American capitalism interacted in world affairs as the Soviets tried to expand Communism and the West tried to contain it. This also includes an in depth look at the political, social, cultural and religious changes that continue to affect the world today. The course is structured similar to a lower level college course, in which lecture is followed by class discussion. Students are taught to utilize critical thinking skills to interpret history on their own, based on extensive research and facts, and then communicate it in class. To further assist in the learning process, students will accomplish reading assignments in the textbook and other sources, chapter terms and regularly scheduled hands-on projects. Interactive learning also occurs through field trips, guest speakers and use of artifacts in class.

### **Geography (2 semesters, 1 elective credit)**

Geography includes a survey of the earth and its resources, the use of those resources, and the geographic and cultural features of people in the various regions and countries of the world. Geography combines all the varied elements of the earth with a strong biblical philosophy. Students will learn how physical geography affects the political and economic features of countries and the way of life of their peoples. Students would develop a new appreciation for the wonders of God's creation and an understanding of their responsibilities to fulfill God's mandate to exercise dominion over His creation. Students should expect daily reading and written assignments, video, worksheets, map exercises, quizzes, tests, and projects. Students will also be able to compete in a map game that will allow them do identify countries of the world quickly and accurately. A mid-term and end-term exam will also be given.

## **MATH DEPARTMENT**

Mathematics derives its purpose, meaning and value from God. It represents the abstract model of the physical world that God created to help us understand the order, beauty, and harmony of His creation, so that we can develop a deeper understanding of God Himself. By acquiring basic knowledge and developing skills and proficiency in the use of numbers, over time, mathematics gives us the tools to become better stewards of His creation, thus serving others and glorifying Him better. Because of its complex nature, mathematics poses a challenge to many students. Therefore, its delivery must consider the fact that God created men in His image and likeness, yet no two individuals are alike. The primary goal of mathematics, then, is to establish clear connections with other disciplines and with practical applications in life. To help achieve this goal, a variety of teaching methods must encourage active engagement in individual and collaborative settings.

### **PreAlgebra (2 semesters, no graduation credit)**

Students who do not pass Pre-Algebra in Junior High with a C or better will be required to take this course at the High School level. It does not receive graduation credit. Pre-algebra is an introductory class to Algebra and Geometry. Its purpose is to establish baseline knowledge of concepts, properties and theories foundational to Algebra and Geometry. The course also introduces branches of mathematics, which include Statistics and Logic, and demonstrates practical application of

mathematics in occupations and daily living. Topics covered in this course include: expressions and equations, decimals, integers, number theory, rational numbers, equations and inequalities, ratio, proportion and percent, geometry (plane and solid), statistics and probability, square roots and special triangles, graphing and functions. Because students have different learning styles, the class is designed to use effective hands-on activities using technology and manipulative resources in individual and collaborative settings. Students should expect daily homework in new topics, regular review of concepts for comprehension and quizzes to check mastery. A test is given at the end of each chapter. A pre-test will be given during the first week of school as a baseline for learned concept comparison. A post-test will be given in May for comparison and will serve as the final exam.

### **ALGEBRA 1 (2 semesters, 1 math credit)**

This class includes expansion of topics introduced in Pre-Algebra, as well as introducing more advanced topics. The student will experience activities in the real number system, linear equations and inequalities, polynomials, applications in factoring, statistics, probability, geometry, functions, relations, graphs, and quadratic equations. Because students have different learning styles, the class is designed to use effective hands-on activities using technology and manipulative resources in individual and collaborative settings. Students should expect daily homework in new topics, regular review of concepts for comprehension and quizzes to check mastery. A test is given at the end of each chapter. All Algebra 1 students take the same end of year final exam with slight variations due to instructor emphasis and coverage.

### **Algebra 1A (2 semesters, 1 math credit) (this course is no longer offered)**

This is the first part of a two-year Algebra 1 course and is recommended for students who need to have frequent review before moving forward. Algebra 1A covers the first half of Algebra 1. The second half is covered in year two. See Algebra description above.

### **Algebra1B (2 semesters, 1 math credit) (this course is no longer offered)**

This class covers the second half of Algebra 1. See Algebra description above.

### **Algebra 2 (2 semesters, 1 math credit)**

Prerequisite: Passing grade in Algebra 1. While Algebra 1 instills the basic concepts, Algebra 2 aims to extend these skills from basic to mastery to application while being able to think and reason mathematically. This course gives added tools the student needs to thrive in a core skill in math by deploying an arsenal of formulas and theorems providing a deeper understanding of patterns in Algebra 1, while equipping us to solve algebraic equations more quickly. In Algebra 2, students will experience individual and/or collaborative activities, sometimes with the use of technology and manipulative resources in the areas of number system, linear and quadratic equations, inequalities, polynomials, factoring, statistics, probability, geometry, functions, relations, graphs, conic sections and applications. Students should expect daily homework in new topics, regular review of concepts for comprehension and quizzes to check mastery. A test is given at the end of each chapter. All Algebra 2 students take the same end of year final with slight variations due to instructor emphasis and coverage.

### **Geometry (2 semesters, 1 math credit)**

Prerequisite: Passing grade in Algebra 1 or Algebra 2

Exploring the physical and abstract model of the orderly universe, Geometry aims to draw the students to a deeper appreciation of God's creation and how they relate and interact. It also emphasizes spatial relationships and how these are valuable tools to many occupations. An integral part of this course is how to use deductive and inductive reasoning even in non-mathematical situations to contrast two opposing views: God's view and the world's view. The ultimate goal is to make correct conclusions based on God's word as the ultimate authority. Students will experience individual and/or collaborative activities, often with the use of technology and manipulative

resources in the areas of subsets of lines, planes and space and their properties and notations with emphasis on triangles, quadrilaterals and circles; proofs; area; volume; surface area; transformation and symmetry; and basic trigonometry. Students should expect daily homework in new topics, regular review of concepts for comprehension and quizzes to check mastery. A test is given at the end of each chapter. All Geometry students take the same end of year final exam with slight variations due to instructor emphasis and coverage.

**Business Math (2 semesters, 1 math or elective credit)**

Prerequisite: Passing grade in Algebra 2, taken in the Senior year of high school

For the Christian, the primary financial goal should be to exercise effective God-honoring stewardship over all the finances the Lord entrusts to us. This is a critical aspect of bringing honor and glory to God and requires discipline and strict adherence to biblical principles of finance. Students will obtain an in depth knowledge of how banks and lending institutions operate, credit card company methods, as well as successful purchase methods of a home, car or basic necessities. Business Math includes personal finance resources such as budgeting, savings plans, investments and insurance. Additional units in personal and business taxes are also included. Daily homework and quizzes are assessed during unit or chapter studies. Finals are given at the end of each semester.

**Trigonometry (2 semesters, 1 Honors math or elective credit)**

Prerequisite: Achieve a grade of C or higher in Algebra 2 and Geometry.

This course is a compilation of advanced algebra, geometry, and trigonometry skills. The exploration of number sequences, patterns, probability, statistics, and permutations show the logic and reason in God's nature. The study of the consistent properties of triangles and other naturally occurring geometrical shapes reveal God's omniscience and organization in his creation. It is the goal of this course to develop a student's proficiency in algebra, geometry and trigonometry skills. In addition, this course will provide ample preparation for the study of more advanced topics in mathematics in their post high school education. The instructor will seek to utilize "real life" applications to make the curriculum relevant to educational and career opportunities in science, technology, engineering, and math. Students should expect daily homework in new topics, regular review of concepts for comprehension and quizzes to check mastery. A test is given at the end of each chapter. Comprehensive finals are given at the end of each semester.

**College Algebra (1 semester, 1/2 Honors math or elective credit)**

Prerequisite: Achieve a grade of C or higher in Trigonometry

The course is an advanced study of algebra taught at the college level that includes the following topics: theory of functions, their inverses, and graphs; exponential and logarithmic functions and equations; inequalities; complex numbers; quadratic functions and polynomials of higher degree; synthetic division, remainder and factor theorems; systems of equations and matrices; sequences and summation notation and series; and counting principles and probability. The instructor will seek to utilize "real life" applications to make the curriculum relevant to educational and career opportunities in science, technology, engineering, and math. Students should expect daily homework in new topics, regular review of concepts for comprehension and quizzes to check mastery. A test is given at the end of each chapter. Comprehensive finals are given at the end of each semester. This course is offered in the first semester and is followed by College Trigonometry in the second semester.

**College Trigonometry (1 semester, 1/2 Honors math or elective credit)**

Prerequisite: Passing grade in College Algebra

The course is an advanced study of trigonometry taught at the college level that includes the following topics: trig functions in right triangles and The Unit Circle; trig functions of any angle

graphs of all six trig functions and inverse functions; using and verifying trigonometric identities; solving trigonometric equations; trigonometric functions in general triangles using Law of Sines and Cosines; vectors; trig form of complex numbers and graphing in the complex plane; analytic geometry including conic sections and their graphs, polar coordinates and graphs of polar equations. If time permits, an introduction to limits and their evaluation may be presented. The instructor will seek to utilize "real life" applications to make the curriculum relevant to educational and career opportunities in science, technology, engineering, and math. Students should expect daily homework in new topics, regular review of concepts for comprehension and quizzes to check mastery. A test is given at the end of each chapter. Comprehensive finals are given at the end of each semester. This course is offered in the second semester and is preceded by College Algebra in the first semester.

### **Calculus ( 2 semesters, 1 Honors math or elective credit)**

This course consists of a review of basic functions and the concept of limits and continuity of trigonometric functions, including limits of infinity. This course consists of derivations for basic functions, trigonometric functions, exponential, logarithmic and inverse trigonometric functions. The application of differentiation is applied to various mathematics, physics and engineering type problems. This course also includes the study of Integrals and their application to lengths, areas and volume of shapes. Various techniques of integration are introduced. Then applications are made to problems involving parametric equations; polar, cylindrical and spherical coordinates while using both double and triple integration. Many students will be able to test out of Calculus 1 and 2 at the college level when the course is completed.

## **PHYSICAL EDUCATION DEPARTMENT**

God created human beings to be active individuals. We also have the responsibility to take care of the earthly bodies we have been given in order to be able to serve him to the best of our abilities. In PE classes students will learn the basic skills and strategies of various team sports including volleyball, flag football, basketball, soccer, badminton, hockey, and softball. Individual fitness activities will also be included such as running, weightlifting and personal exercise routines. Teaching of proper form and technique is reiterated to ensure safety. Fitness Testing will occur twice a year, once in the fall and once in the spring as a measure of improvement though participation and attitude are the factors that contribute to grades. The Objectives of Weightlifting/Training is for students to perform a variety of lifting techniques and/or maneuvers to increase their muscular strength and endurance. Exercises are designed to also increase muscular strength, while simultaneously concentrating more on muscular endurance. Each day students are required to independently perform warm-up exercises to loosen and warm their muscles in preparation for workout and to lessen the likelihood of injury. Students will perform a variety of fitness tests as a baseline. Boys and Girls are separated, as are team athletes.

**High School Girls PE-** (2 semesters, 1 Physical Education credit)

**High School Boys PE-** (2 semesters, 1 Physical Education credit)

**Boys, Girls, or Team Weights-** (2 semesters, 1 Physical Education credit, 1 GPA credit post-grad)

## **SCIENCE DEPARTMENT**

God reveals Himself through His Word and the things He has created. Science is the observation of the physical world. As a student of science objectively makes observations about the physical world, he comes face to face with the reality of the existence of God. The purpose of the study of science is to bring glory to God as the creator of all things. The beauty and specified complexity of the created order lead us to that end. This purpose is foundational if we are to discover the rational principles

and truths that God uses to govern the universe. All of the ethical questions that arise from science have an answer in the absolute truth of God's Word. It is to this end that students are taught about the scientific method, how to make accurate observations, and how to apply the Truth of God's Word to scientific study. Students at Sunrise will recognize the dignity that is stamped on man as being created in the image of God. Science can provoke the students to see the awe and wonder of God.

**Physical Science/Advanced Physical Science (2 Semesters, 1 Science Credit)**  
**(previously titled Basic Science and Advanced Basic Science)**

Prerequisites: Algebra I or concurrent enrollment in Algebra I required.

Physical science encourages students to see matter and energy as part of God's creation. First, students focus on elementary physics and other forms of energy. Students then study elementary chemistry, discussing the structure and interactions of matter and defining chemical and nuclear energy. This course includes many labs, experiments, and demonstrations to reinforce the concepts taught throughout the course. Students will learn and understand basic information on matter, measurement, mechanics, energy and sound, light, thermodynamics, and chemistry, but also gain a foundation for applying God's word to the higher-level sciences. Students will build a foundation for later high school and college science classes through lecture, daily classwork, demonstrations, experimentation, and projects. Advanced Physical Science includes an added requirement of a science fair project and presentation.

**Biology (2 Semesters, 1 Science Credit)**

Biology is designed as a high-school survey course, covering a wide array of areas of biology. Starting with an understanding of what is life and the scientific method, students will gain understanding in biochemistry, which is foundational to understanding all life processes. Biology studies also include cellular biology, genetics, biotechnology, the classification of organisms, microbiology, fungi, plants and an introduction to human anatomy. Labs are done for each chapter to further understanding along with lectures. Tests are given at the end of each chapter. Comprehensive finals are given at the end of each semester.

**Chemistry (2 Semesters, 1 Science Credit)**

Prerequisite: Algebra II or concurrent enrollment in Algebra II

This course is designed to provide the general concepts of chemistry. Chemistry includes units on atomic and molecular structure, bonding, reactions, acids, bases and salts, gas laws, states of matter, chemical periodicity, chemical stoichiometry, and may include an introduction to organic chemistry as an advanced concept. Quizzes and a test will be given at the end of each unit. Labs will accompany units, which will reinforce concepts learned in each unit. Comprehensive finals are given at the end of each semester.

**Zoology (2 Semesters, 1 Honors science or elective credit)**

Prerequisite: An A in Biology or approval of instructor with a B in Biology

Zoology is designed to build and extend the students' knowledge of the life sciences and the scientific processes used to study animal life. Students will engage in activities covering the 10 major phyla of the animal kingdom and will be able to compare and contrast their unique sets of life processes. Students will also learn to recognize and address difficult ethical questions and questions of origin that naturally arise in the field of zoology with a Biblical worldview. Students will be expected to participate in note-taking, videos, field trips and lab activities. Tests are given at the end of each unit study. A final, comprehensive test is given at the end of each semester. In addition, students will complete a book report and a term paper on a topic in zoology, due at the end of each semester respectively.

**Human Anatomy and Physiology (2 Semesters, 1 Honors Science or elective credit)**

Prerequisite: An A in Biology or approval of instructor with a B in biology

Anatomy and Physiology is designed to be an advanced Biology course, which comprehensively covers the concepts of the human body from the cellular level through systems. It is preferred that the student has taken a Chemistry course prior to Anatomy & Physiology. This course includes labs for each chapter, which are both from a microscopic viewpoint as we view tissues, as well as macroscopic as we dissect organs of the various systems. Tests are given on each chapter, and quizzes are given on each of the completed coloring page diagrams of human anatomy. A cumulative final is given after the 1<sup>st</sup> semester. As a conclusion to the course, a dissection of a mammal is completed to view/review systems learned; this dissection counts as the final exam for 2<sup>nd</sup> semester.

**Physics (2 Semesters, 1 Honors Science or elective credit)**

Prerequisite: Chemistry and Trigonometry or concurrent enrollment in Trigonometry

It is the intent of this course to increase the student's understanding and appreciation of the wonder of the physical world as created by God. Focus on algebra fundamentals is prevalent as Physics is a math driven science discipline. The course will conduct an in depth study of the following topics: linear motion problems in distance, velocity and time; projectile motion involving gravity, velocity and time; application of Newton's 2<sup>nd</sup> Law of Motion on an accelerated object; Law of Conservation of Energy; Law of Conservation of Momentum; rotational motion problems with moment of inertia problems; Pascal's principle and Archimede's Law to solve fluid mechanics problems; application of the Conservation of Energy principle to heat transfer; and application of the Energy Principles to moving electric charges. Daily lecture and homework are used to develop mastery and quizzes and tests are given at the end of each unit. Comprehensive Semester exams are given.

**ADDITIONAL ELECTIVES**

Our students should have a solid foundation in the core academic subjects, but also have a broad exposure to elective class areas that complement their education. These electives give students opportunities to develop into more mature men and women of God and to reach people in a wide variety of fields. In addition, these classes help students discover their God-given gifts, and, at times, pique an interest they didn't even know they had. These classes will equip our students to use their God-given creativity to glorify Him through music and art, to apply Biblical principles to business and money, and gain knowledge of economics in the home and workplace, in order to be wise stewards of His resources.

**Business and Economics (2 semesters; 1 elective credit)**

This class will include education in business operations that will give the students a solid understanding of marketing, manufacturing, sales, management, and day-to-day operations. Economics introduces the student to what makes the world operate the way that it does. They will learn that choices affect our lives, and government and individuals' choices determine the environment we live in. Personal finance will be introduced to students to understand Biblical financial management including purchasing, saving and investing. Topics like insurance and taxes will also be covered in this section. Students should expect review and testing at the end of each chapter, with interspersed projects that require demonstration of subject comprehension. Participation in a simulated investing competition is mandatory during a multi – week period in the spring. A pre-test will be given during the first week of school as a baseline for learned concept comparison. A post-test will be given in May for comparison.

**Speech** (2 semesters; 1 GPA credit)

This course is taken by the post-graduate students as a part of the “year 13” program. In your life, no matter your occupation, at some point you will be asked to deliver a presentation. As a Christian the mastery of communicating the Truths set forth by God is of critical importance. In order for you to be an effective speaker, your communication, verbal, nonverbal, and written must be consistent. Master of the skills used in public speaking will greatly enhance your chances of being understood. An effective presentation includes good content, organization, delivery, audience, and analysis. These are the tools that you will be evaluated on during the course. In addition, the information you will learn will assist you in becoming a more critical consumer of information. Students will gain experience in interpersonal, group, and public communication. They will practice delivery of written planned and extemporaneous speeches using visual aides where appropriate.

**Philosophy-** (2 semesters; 1 elective credit)

Prerequisite: Approval of instructor (Juniors/Seniors)

A course designed to teach students to reason as they study world philosophies and ask themselves “*How Should We Then Live?*” Assessments are done through class Socratic circle discussions, presentations, projects, and tests.

~~**Family and Consumer Science-** (2 semesters; 1 elective credit)~~

~~Enrollment limited to seniors~~

~~Students will examine life skills necessary for living independently. These include making good consumer decisions, handling personal finances, and other practical real life situations~~

**Yearbook** (2 semesters, 1 elective credit)

This class is a practical course in print media publishing, to develop and apply journalism skills in order to produce a high quality piece of school memorabilia that highlights the memorable events that happened within the school year in a designed and organized manner. Concepts include, but not limited to, the use of technology via computers, internet, digital photography, brainstorming, coverage, content, reporting, writing, headlines/captions, editing, typography, design, and graphics. Students will also value the use of teamwork, responsibility, and organizational skills.

**ACT/SAT Preparatory Course** (1 or 2 semesters, audited course)

This course is taken by the post-graduate students as a part of the “year 13” program. This course is presented in two formats. Math Prep is presented twice per week and English Prep three times per week. Content includes test-taking skills, practice material either presented online or through practice booklets, and several practice tests. During practice test days the class time is extended to match a real test situation.

**Robotics**

This is an introductory class to mechanical and structural engineering that also presents an intermediate challenge in coding. The class also teaches real world skills such as problem solving, teamwork, presenting and research. The class will effectively challenge students to design and build innovative answers to real world problems such as bridge building and elevator design.