

**WESTMINSTER CHRISTIAN ACADEMY
2019-2020 UPPER SCHOOL COURSE DESCRIPTIONS**

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COURSE LEVELS

COLLEGE PREPARATORY COURSES – College preparatory courses are designed to prepare students with the necessary skills to achieve academic success in a university setting.

HONORS COURSES – Honors courses are designed to meet the needs of talented students willing to push themselves to a higher level of critical thinking. An Honors class parallels the curriculum offered in the corresponding regular class, but it may cover additional topics in greater depth. Enrollment in honors courses requires, typically, a minimum grade in the previous subject course and/or department recommendation.

ADVANCE PLACEMENT (AP) COURSES – An AP class is a course designed to prepare students to take the College Board-sponsored Advance Placement exam. Most universities award college credit based on AP exam scores. AP classes are offered in English, chemistry, and history and may be taken in the 11th and 12th grades. Students are strongly encouraged to take the AP exam, and the cost of the AP exams will be borne by the student. Enrollment in AP courses requires department recommendation and a cumulative GPA of 3.00 or greater.

DUAL ENROLLMENT (DE) COURSES – A dual enrollment course earns both a high school unit and college-level credit simultaneously. A student taking a dual enrollment course will have a college transcript with a grade that counts towards his or her college grade point average calculation. Dual enrollment courses require an additional fee and a prerequisite minimum ACT or PreACT score and minimum GPA.

GRADUATING WITH HONORS

HONORS

Students who complete the high school graduation requirements with three or more honors and/or AP courses and a weighted cumulative GPA of 3.33 or higher may graduate with honors.

ADVANCED HONORS

Students who complete the high school graduation requirements with five or more honors and/or AP courses and a weighted cumulative GPA of 3.80 or higher may graduate with advanced honors.

COURSE DESCRIPTIONS

BIBLE

Graduation Requirements: 4.0* Credits

Bible I – Biblical Ethics [1.0 Credit] (Prerequisites: None)

(State Code/Course Name: 222005 Religious Studies I)

How can we know what is right and what is wrong? How are we to distinguish justice from injustice? By what standard does God expect us to live? Very likely the student knows that God's Word is the standard of right and wrong. But knowing this does not mean he or she is able to use the Bible as the basis for his or her decisions and behavior. Using the Bible as the standard for actual situations takes careful thinking and hard work. This course engages the student in the challenging work of discerning God's will. Primarily a detailed study of the Ten Commandments, it considers both personal ethics (how one is to live before God and one's neighbor) and social ethics (how the family, the state, the church, and businesses are to conduct their affairs).

Bible II – History of Religion [1.0 Credit] (Prerequisites: Bible I or *transfer student)

(State Code/Course Name: 222009 History of Religion)

Bible II is an examination of basic Bible doctrine and the challenge against this doctrine coming from some of the major cults. It also surveys six major religions—Hinduism, Buddhism, Judaism, Islam, Marxism, Secular Humanism—including their history and basic teachings. Throughout the course, students are challenged to develop a worldview and lifestyle untainted by sinful philosophies and are equipped to “make a defense...for the hope that is in them with gentleness and reverence.”

Bible III – Apologetics and World Views [1.0 Credit] (Prerequisites: Bible I and Bible II or *transfer student)

(State Code/Course Name: 222007 Religious Studies III)

Students are constantly being confronted with questions about what they believe on any given topic in any given area. Apologetics is the study of how to defend what you believe, and this course will present these difficult questions to the students as well as inform them of the many Worldviews that influence these beliefs. This course takes a deeper look at 6 competing Worldviews—Christianity, Islam, Secularism, Marxism, New Spirituality and Postmodernism—and examines the beliefs related to areas of Theology, Philosophy, Ethics, Biology, Psychology, Sociology, Law, Politics, Economics and History.

Bible IV – Biblical Worldviews and Cultural Seminar [1.0 Credit] (Prerequisites: Bible I, II, and III or *transfer student)

(State Code/Course Name: 222008 Religious Studies IV)

The Bible instructs us to “examine everything carefully; cling to what is good; reject every form of evil.” The worldview class is designed to separate the wheat from the chaff in the culture, especially in popular media. Sometimes it is difficult to tell good from evil, right

from wrong, in what is presented through television, movies, books, and magazines. More often it is because the rot is beneath the surface. Students are alerted to inferences and underlying assumptions in what they see and hear. As they gain experience exposing the operating assumptions of others, students are taught the Biblical assumptions they are to live by, thus becoming familiar with the basic elements of Christian and anti-Christian worldviews. The hope is that students may be guided toward maturity in Christ, and no longer “be children carried about ... by the trickery of men.”

COMPUTER

Graduation Requirements: 0 Credits

Computer courses count toward elective graduation requirements.

Audio/Video Production [1.0 Credit] (Prerequisites: Computer Literacy or Department Recommendation)

(State Code/Course Name: 061199 Computer Science Elective: Audio/Video Production)
Audio and Video Productions will be broken up by semesters; the first semester will emphasize video journalism and news broadcasting. Students will learn to speak clearly in front of a camera. They will also learn how to write and ask sound journalistic questions, conduct and film interviews, create news broadcasts, and report current events. Students will learn basic elements of photography and videography. Emphasis will be made on different types of video shots, and how to organize shots. Post production will be done using the state of the art video editing software Adobe Premiere Pro and Photoshop, and jingles will be created using Garage Band. Students will also learn to create a video advertisement.

In the second semester emphasis will be made on new media, filming shows and videos. Students will participate in the “Toyota Safe Driving Challenge” and submit their safe driving video to Toyota, via “YouTube.” Students will write scripts, create storyboards and develop sound video production practices. Students will also learn how to create a “Stop Motion” video. Once again students will use Adobe Premier Pro, Bridge, Photoshop and Flash for postproduction.

Computer Literacy [0.5 Credit] (Prerequisites: Typing proficiency)

(State Code/Course Name: 061101 Computer Technology/Literacy)
Computer Literacy students begin the semester studying computer terms, parts of the computer and how to use an operating system over a network. Students are then taught how to use Microsoft Word to create business and personal letters, form letters, mail merges, and tables. Students must also write a paper using Word; this material provides the content for preparing PowerPoint presentations. The semester is completed with an overview of Excel spreadsheet applications.

Digital Graphics and Animation [0.5 Credit] (Prerequisites: Computer Literacy or Department Recommendation)

(State Code/Course Name: 061115 Digital Graphics and Animation)
In this course, the students learn how to create shape tweens, motion tweens, motion guides, mask images and use frame-by-frame animation. Students will be taught a working knowledge of Action Scripts so that they will be able to animate movie clips, edit sound files and give actions for

buttons. Students also learn how to create web pages in Dreamweaver and edit different kinds of images in Fireworks for use in a website. Students will also expand and maintain our existing Website.

Desktop Publishing [1.0 Credit] (Prerequisites: Department Recommendation)

(State Code/Course Name: 040207 Desktop Publishing)

Students in desktop publishing create the school's yearbook entirely electronically using Adobe's Illustrator and Adobe's Photoshop software packages. In the process of creating a yearbook, students learn how to efficiently use desktop publishing and photograph-editing software. Students also learn the elements of good page design, how to write articles for their pages, how to crop and edit photographs and responsible journalism. Students in desktop publishing receive computer credit for the course.

Java Programming [1.0 Credit] (Prerequisites: Computer Literacy or Department Recommendation)

(State Code/Course Name: 080521 Java Programming)

Java programming is a year long, beginner level course taking students through basic programming concepts including constant declarations, variable usage and types, creation of prompts, logical decision making, looping structures, arrays and array access, record and file creation and access, sorting of simple arrays, arrays of records and compound arrays. Students will focus on graphical applications of these features with direct application to different kinds of games that use properties found in physics, one project will be a projectile motion game similar to "Angry Birds."

Special emphasis will be placed upon sound programming practices such as commenting, efficient coding, and properly naming variables. This class will be valuable for students wishing to pursue a computer science related field of study, as well as students desiring to develop excellent reasoning and logical thinking skills.

Multimedia Productions [0.5 Credit] (Prerequisites: Computer Literacy or Department Recommendation)

(State Code/Course Name: 040206 Computer Multimedia Presentations)

This course is designed to be a beginner level course in the art and technology of Multimedia productions. Each student will learn to use Macintosh computers and the following software: Photoshop, Bridge, iMovie, iDVD, Garage Band and Flash. The students will learn the proper way to create and store digital media. Students will learn the basic parts of the camera and key photography components. Multimedia students will then learn how to take the following pictures: still life, action, portrait, macro, landscape, night scene. Major projects will include pictures of the Best and Worst of Louisiana, Extended Exposure, Panoramas, and Advertisements. Transitioning from photography to videography will be accomplished through a Stop Motion project. Videography concepts and activities will include developing movie ideas, storyboarding, the production process, lighting, audio and documentary movies. Students will also be introduced to podcast production using Garage Band.

Web Mastering [0.5 Credit] (Prerequisites: Computer Literacy or Department Recommendation)

(State Code/Course Name: 040210 Web Design)

Concepts of web communication will be studied and explored. Students will design, develop, and maintain web pages using appropriate current editors and/or tagging languages. Students will

demonstrate technical knowledge of the equipment and an ability to use a variety of input devices, file formats and transfer methods. Students will gain proficiency in the use of the various browsers used to navigate the web and will study connectivity issues as needed. Security and privacy issues, copyright infringement, trademarks and other legal issues relating to the use of the web will be studied. Students will use appropriate search methods and applications to retrieve and evaluate information and use a variety of web communications. Career possibilities related to the internet and web design will be explored. Primary software used to facilitate this class will be Dreamweaver, Flash, Adobe Acrobat, Adobe Illustrator, Photoshop, and iWeb.

ENGLISH

Graduation Requirements: 4.0 Credits

English I [1.0 Credit] (Prerequisites: None)

(State Code/Course Name: 120331 English I)

The curriculum of English I is designed to build a strong foundation for incoming freshmen in the areas of vocabulary, composition, literature, and grammar. While the course's focus is a thorough review of grammatical concepts, basic composition skills, and the exhaustive research paper, a great deal of time is also spent on setting a strong foundation of literature skills and reading comprehension. The vocabulary, grammar, and composition skills covered are designed to improve a student's scores on standardized tests such as the ACT and SAT, as well as prepare him/her well for college. The literature segment of this course is designed as a survey of world literature with a concentration of American literature, the American novel, and the origins of drama.

English II [1.0 Credit] (Prerequisites: Completion of English I)

(State Code/Course Name: 120332 English II)

This course provides the necessary tools with which students will understand almost all-great literature. Western civilization has built its literature on allusions to ancient mythology and world literature, so this class lays the foundation in order for students to "get" literary references and clues in the texts they will study in their American and British Literature classes, both here at Westminster and later in college.

English II Honors [1.0 Credit] (Prerequisites: 85 average for the year in English I and Department Recommendation)

(State Code/Course Name: 120332 English II)

English II Honors has been labeled as the "Great Books Course." While grammar, vocabulary, and composition do play a significant role in this course, the bulk of class time is spent on analyzing literature and on responding to literature in written form. Students begin the year with a study of the epic poem, epic heroes, and the epic novel during quarter one by reading *The Odyssey* and *The Grapes of Wrath*. In quarter two, students study medieval myths collected from world literature with an emphasis on Roman and Greek mythology. In semester 2, quarter 3 and 4, students complete a thorough study of drama using *Hamlet*, *Much Ado About Nothing*, *Faust*, and *Dr. Faustus*.

English III [1.0 Credit] (Prerequisites: completion of English I and English II)

(State Code/Course Name: 120333 English III)

American Literature is an intriguing record of our nation's progression from Christianity to relativism. Not only is American literature worthy of study on the basis of its innovative genres and

trends, but it is the history of two of the greatest themes of all time: our national identity and our religious beliefs. English III will equip students for college in two ways: by presenting them with very diverse worldviews, most of which they will likely encounter in college, and by preparing them for the writing requirements of most entrance tests.

English III Honors [1.0 Credit] (Prerequisites: minimum 85 average for the year in English II and Department Recommendation)

(State Code/Course Name: 120341 English III: Honors)

In English III Honors, the study of vocabulary and grammar are phased out. Students cover the mechanics section of the grammar text paying special attention to the application of those skills to improving their writing and composition skills. A preponderance of the class is spent on studying American literature through the implantation of various American literature anthologies. In addition to studying American literature through the use of anthologies, students study various classical works (such as *All the King's Men*, *As I Lay Dying*, *Moby Dick*, *King Lear*, *The Taming of the Shrew*, and *The Heart of Darkness*.) An emphasis is placed on the value of these works to the literary world with a focus on implementation of theme, structure, diction, and writing style. Finally, students compose several major reactionary essays in response to works read during the course, as to prepare them for AP English and the AP English Exam.

English IV [1.0 Credit] (Prerequisites: completion of English I, II, and III)

(State Code/Course Name: 120334 English IV)

In this class, seniors will hone their critical reading, thinking and writing skills. Because of its 1500-year scope, British literature covers a diverse range of themes and genres, providing students with rich material for practicing their abstract thinking skills. In addition to studying great literature, students participate in college-type discussion seminars, group presentations, and disciplined paper writing and revising.

AP English Literature & Composition [1.0 Credit] (Prerequisites: successful completion of English I, II, and III; Department Recommendation; and a cumulative GPA of 3.00 or higher)

(State Code/Course Name: 120326 AP English Literature & Composition)

Note: Dual enrollment credit may be earned for students taking AP English.

AP English is a thorough study of literature. While students predominately study British literature, students are also exposed to world classics listed on the AP English Exam Reading list. While much time is spent on analyzing literature and on responding in written form to literature, students are taught to categorize and recognize literature according to period. A fair amount of time is spent on covering the periods of world literature and how the complementary periods in society affect the literature of the time.

FINE ARTS

Graduation Requirements: 1.0 Credit

Art I, II: [1.0 credit each] (Prerequisites: I must be taken before II)

(State Codes/Course Names: 030501 Art I; 030502 Art II)

Art I students experience a number of different art media and concepts at introductory levels.

Arts II students build on their art skills and knowledge and have more opportunities to explore increasingly difficult and individualized art projects.

Theatre I [1.0 Credit] (Prerequisites: Department Recommendation)

(State Code/Course Name: 030700 Theatre I)

This program is designed to introduce students to theatre. Students are assisted in learning about theatre by offering a variety of activities and performance projects. Students participate in a large production by acting or being a technician. Training is offered in theatre makeup, lighting, sound, backdrop artwork, and acting. Field trips to local theatres that offer Broadway shows or operas are included in our program. Ministry opportunities for sharing Christ are available through our Chapels. Our program strives for a spirit of excellence to glorify God in all that we do.

Theater II [1.0 Credit] (Prerequisites: Theater I; Department Recommendation)

(State Code/Course Name: 030721 Theatre II)

This program continues the training begun in Theater I. Students participate in a variety of activities and performance projects, a large production by acting or being a technician. Training continues in theatre makeup, lighting, sound, backdrop artwork, and acting. Field trips to local theatres that offer Broadway shows or operas are included. Ministry opportunities for sharing Christ are available through our Chapels. Our program strives for a spirit of excellence to glorify God in all that we do.

Fine Arts (FA) Survey [1.0 Credit] (Prerequisites: None)

(State Code/Course Name: 030332 Fine Arts Survey)

Fine Arts Survey includes a study of the visual arts, music, drama, and dance. Students are encouraged to develop the ability to see the world through the arts; express ideas and emotions through the arts; develop an understanding of the arts in their historical context and how they have shaped society; and develop the capacity to make aesthetic judgments.

Choir [1.0 Credit] (Prerequisite: Department Recommendation)

(State Code/Course Name: 030310 Beginning Choir)

The foremost goal of the WCA Choir is to glorify God through our voices. Other goals include acquiring skills to become a performance-oriented group, gain musical knowledge, demonstrate proper vocal technique, and cultivate an understanding and appreciation for serious choral music. The Class culminates with the performance of the winter concert.

Advanced Choir [1.0 Credit] (Prerequisite: Department Recommendation)

(State Code/Course Name: 030312 Advanced Chorus)

This class is a continuation of choir with a shift of focus to more demanding acappella pieces, traditional chamber music, and contemporary compositions. The class culminates with the performance of the spring concert.

FOREIGN LANGUAGE

Graduation Requirements: 2.0 Credits (consecutive)

French I [1.0 Credit] (Prerequisites: None)

(State Code/Course Name: 121001 French I)

Students learn the basics of French in conversation. Communication skills increase through proper sentence construction and translation. The course includes hands-on learning with special projects such as cooking French food, watching French movies – level one, playing French games, website research and oral presentations.

French II [1.0 Credit] (Prerequisites: successful completion of French I; recommended to be taken in academic year immediately following French I)

(State Code/Course Name: 121002 French II)

Written and conversation skills are developed. Students translate short stories from French to English. Exceptions to basic grammar rules are learned. There is hands-on learning with special projects such as cooking French food, playing French games, and watching French movies – level 2, website research and oral presentations.

Latin I Honors [1.0 Credit] (Prerequisites: 95 or higher English score on Terra Nova, 95 average in English 7/8, and Department Recommendation)

(State Code/Course Name: 121601 Latin I)

The basics of Latin are learned through vocabulary memorization and translations. The English language with “learning English through Latin” with sets of derivatives is developed. The Roman people and their empire are studied. Roman Day is held when students dress up in Roman attire and have a Roman meal, and participation on a Roman school day after making their own school supplies.

Latin II Honors [1.0 Credit] (Prerequisites: Latin I and Department Recommendation; recommended to be taken in academic year immediately following Latin I)

(State Code/Course Name: 121602 Latin II)

The basics in grammar and vocabulary of Latin are learned. Students translate the “De Bello Gallico” from Caesar, and they study poetry from Ovid and theatre plays from Plautus. A deeper learning of Roman life is studied.

Spanish I [1.0 Credit] (Prerequisites: None)

(State Code/Course Name: 122501 Spanish I)

Spanish I is a broad survey of culture and vocabulary. Students study the culture of South American countries, Spain, Mexico, and Central America. Grammar consists of verbs, adjectives, past, short future, and present tenses. Two reports are assigned, one on a Spanish speaking country and one on an historical or art figure. Bible Scripture is memorized in Spanish. Conversation is introduced through “situations” corresponding to the vocabulary lesson. Games are played to practice vocabulary and grammar.

Spanish II [1.0 Credit] (Prerequisites: successful completion of Spanish I; recommended to be taken in academic year immediately following Spanish I)

(State Code/Course Name: 122502 Spanish II)

This course is a continuation of Spanish I. Grammar consists of future and present progressive tenses, indirect objects, and indirect object pronouns. Conversation is the main goal in the second semester. Two reports are assigned, one on Don Quixote and the second on the economy or government of a Spanish speaking country. Spanish II students translate their personal testimony into Spanish. Bible Scripture is memorized, also. Testing for this course includes verbal and written components.

HISTORY

Graduation Requirement: 4.0 credits

Western Civilization [1.0 Credit] (Prerequisites: None)

(State Code/Course Name: 220402 Western Civilization)

History shows us where we came from and how we got to where we are. The center of human history is Jesus Christ. In fact, human history can be described as the continuing process of man's rebellion from, and reconciliation to, his Creator. Western Civilization students study the development of our Western culture beginning with the Reformation and concluding with current day Western society. Students will follow the growth of Europe and Western expansion and influence on America. Students will also learn about the philosophies which shape our modern era, and how people and nations have responded to these new ideas.

World Geography [1.0 Credit] (Prerequisites: None)

(State Code/Course Name: 220300 World Geography)

In this course, we will study the different regions of the world including North America, South America, Europe, the Middle East, Asia, Africa and Australia. For each region of the world, the class will examine the physical environment, the culture and people of the regions, the economic activities of the regions and the most important political issues associated with the regions. This course will tie in the histories of countries and tie into how it influences the social, political and diplomatic issues facing these countries today.

Civics [1.0 Credit] (Prerequisites: World Geography or Western Civilization)

(State Code/Course Name: 220501 Civics)

Civics covers American government from its Christian founding fathers through present day policy and procedure. It will also contain a unit on Free Enterprise, which focuses on the American economic system, personal financial planning and the importance of credit, goal setting and financial protection.

United States History [1.0 Credit] (Prerequisites: World Geography or Western Civilization and Civics; Department recommendation and a cumulative GPA of 3.00 or higher for AP US History)

(State Code/Course Name: 220403 U.S. History)

(Dual Enrollment State Code/Course Name: 220407 U.S. History: DE)

(AP US History State Code/Course Name: 220404 AP US History)

Major course objectives are for students to comprehend significant events that shaped our country's history; identify important individuals' roles that influenced our history; identify key dates and documents involved; write essays explaining important events and people; understand how past events are tied into today's history, culture and current events. We will dissect controversial issues throughout our history by looking at the facts and drawing conclusions as to why things are and how they shape our history today. Current event projects will remain a consistent part of the class so that the student will be able to tie in past events to today's events and then draw conclusions as to what issues we may expect to see in the next generation (social, political, diplomatic, etc.) U.S. History is designed to tie yesterday into today so we can project a grounded

worldview for tomorrow. **This class is offered with an AP or dual enrollment (DE) option as qualified teachers are available.**

World History [1.0 Credit] (Prerequisites: World Geography or Western Civilization, Civics, and United States History; Department recommendation and a cumulative GPA of 3.00 or higher for AP World History)

(State Code/Course Name: 220401 World History)

(Dual Enrollment State Code/Course Name: 220450 World History: DE)

(AP World History State Code/Course Name: 220413 AP World History)

History shows us where we came from and how we got to where we are. The center of human history is Jesus Christ. In fact, human history can be described as the continuing process of man's rebellion from, and reconciliation to, his Creator. World History students study major civilizations in Europe, Asia, Africa, and the Americas and their contributions. The expansion of European power and economic influence and analysis of the impact of political revolutions and new ideologies are covered as well. Cause and effect relationships between international power shifts and the break up of colonial empires following World War II into the present are explored. Students will learn about the philosophies which shape our modern era, the artists who translated and communicated these philosophies for the people of modern nations and how these people and nations acted upon or reacted to these new ideas. **This class is offered with an AP or dual enrollment (DE) option as qualified teachers are available.**

MATHEMATICS

Graduation Requirements: 4.0* Credits

Algebra I [1.0 Credit] (Prerequisites: None)

(State Code/Course Name: 160321 Algebra I)

Algebra I is a course in which students explore using variables to represent data. Linear and nonlinear relationships will be studied through equations, inequalities, and graphing. Students will also learn how to simplify and solve radical and rational expressions and equations. Collecting and analyzing data using statistical analysis allows students to learn about statistics and probability.

Geometry [1.0 Credit] (Prerequisites: Algebra I)

(State Code/Course Name: 160323 Geometry)

Geometry provides abundant opportunities to teach students how to reason mathematically. Although we do write proofs, our goal is to successfully reason through the solution of a problem. Our study of geometry includes definitions, postulates, and theorems, and it focuses on the application of them in both textbook and real-life problems.

Algebra II [1.0 Credit] (Prerequisites: Algebra I and Geometry)

(State Code/Course Name: 160322 Algebra II)

Algebra II moves the student from concrete "math facts" to abstract "math applications." The proper relation between pertinent information, calculating the proper equation, and graph construction is emphasized.

Financial Mathematics [1.0 Credit] (Prerequisites: Algebra I, Geometry, Algebra II)

(State Code/Course Name: 160345 Financial Mathematics)

Financial Math is a practical applications math course that helps develop skills students will use in the real world to solve business and consumer problems. Some of the topics covered are buying a used/new car, interest on loans, payroll computations, checking accounts, savings accounts, household budgeting, and many others. The text also provides ample opportunity to review basic computational skills. Note: Financial Math does *not* qualify for a fourth math for TOPS requirements or for LA TOPS University graduation requirements (Class of 2018 and after). It is an elective.

Functions & Statistics [1.0 Credit] (Prerequisites: Algebra I, Geometry, Algebra II; senior standing)

(State Code/Course Name: 160347 Advanced Math – Functions and Statistics)

This course will continue the study of functions begun in Algebra I. The major topics include a more rigorous study of the graphs of functions and the different ways to express functions (tables of values, algebraic equations and verbal descriptions). Functions that model physical phenomena will be used as examples to study the concepts of domain, range, and function composition. Translations, dilations, and reflections of functions will also be explored in order to deepen student understanding of functions and the families to which they belong. It will also cover all aspects of triangle trigonometry. It will begin with a review of right triangle ratios. The Laws of Sines and Cosines are introduced so that problems involving oblique triangles can be solved. The course will include real-life applications of triangle trigonometry. Included in the course is the study of power functions and polynomial functions begun in Algebra II with an approach centered on data collection. Functions that model physical phenomena will be used as examples for a study of the concepts of domain, range, function composition, and function characteristics. This course will also focus on rational and radical functions. Each type of function will be analyzed based on its algebraic and graphic characteristics and properties. It will continue the study of radical functions begun in Algebra II. Each type of function will be analyzed based on its algebraic and graphic characteristics and properties. This course will also focus on graphing functions, simplifying expressions, solving equations and modeling real-life situations and data using exponential and logarithmic functions. It will expand on the properties of exponents and logarithms covered in prior math courses and provide a review of essential mathematical skills. The course will include the development of statistical vocabulary. The difference between descriptive and inferential statistics is introduced. Students will discover and utilize methods of collecting, organizing and analyzing univariate (single-variable) data. Advantages and disadvantages of various data displays are examined as are measures of center and spread. The course will cover the statistics of two related variables. The topics include displaying and analyzing paired data and formalizing relationships which have been introduced in previous years.

Pre-Calculus [1.0 Credit] (Prerequisites: Algebra I, Geometry, Algebra II)

(State Code/Course Name: 160346 Advanced Mathematics – Pre-Calculus)

Pre-Calculus is a combination of upper level algebra and geometry, trigonometry, and pre-calculus, with emphasis on trigonometry. Thinking skills are emphasized to prepare students for analytical and critical thinking. Concepts that are studied include polynomial functions, exponential and logarithmic functions, trigonometric functions, systems of equations and inequalities, and matrices and determinants.

Calculus Honors [1.0 Credit] (Prerequisites: Algebra I, Geometry, Algebra II, Pre-Calculus [75 average]; Department Recommendation; a cumulative GPA of 3.00 or higher for AP Calculus AB)

(State Code/Course Name: 160368 Calculus: Honors)

(AP Calculus AB State Code/Course Name: 160327 AP Calculus AB)

Calculus is the mathematical tool used to analyze changes in physical quantities, such as velocities and acceleration. Through this course, students will learn to model real-life situations involving tangent lines, slopes, areas, volumes, arc lengths, curvatures, and other concepts through the study of limits, differentiation, and integration. **This class is offered with an AP or dual enrollment (DE) option as qualified teachers are available.**

Accounting [1.0 Credit] (Prerequisites: None)

(State Code/Course Name: 040101 Accounting I)

Note: This is a potential new elective and may be offered based on interest and teacher availability.

Accounting emphasizes a strong foundation in basic accounting theory and procedures along with current applications of computer technology. This combination ensures that students will master basic accounting concepts and procedures as well as a general knowledge of how to use the computer to perform accounting activities. Accounting is considered the "language of business"; therefore, it is a crucial component of academic backgrounds for students who will pursue entrepreneurial adventures, professional careers, or small business ownership. All students, regardless of the profession they choose, will benefit from accounting instruction.

PHYSICAL EDUCATION

Graduation Requirement: 2.0 credits (0.5 from health)

Health and Physical Education I [1.0 Credit, 0.5 from Health] (Prerequisites: None)

(State Code/Course Name: 190101 Health and Phys. Ed. I)

Students cover such basic topics as nutrition, drugs and alcohol, fitness, and different systems of the body. We teach that as Christians we are called to be stewards of our bodies. This course emphasizes being caretakers of our bodies through healthy eating and exercise. Physical Education offers a basic understanding of rules, regulations, and skills of team sports and lifetime sports, along with covering personal fitness through cardiovascular activities and weight training.

Health and Physical Education II [1.0 Credit, Fa/Sp] (Prerequisites: H & PE I)

(State Code/Course Name: 190102 Health and Phys. Ed. II)

Physical Education offers a basic understanding of rules, regulations, and skills of team sports and lifetime sports, along with covering personal fitness through cardiovascular activities and weight training.

Athletic Health & PE [1.0 Credit] (Prerequisites: Play one or more major sports—baseball, basketball, football, soccer, track, volleyball—and Department Recommendation)

(State Codes/Course Names: 190103 Health and Phys. Ed. III; 190104 Health and Phys. Ed. IV)

Athletic PE trains athletes for their specific sports and conditions through regular workouts. Curriculum includes weight training, safety, flexibility, mobility, speed development, plyometrics, general and specific strength, endurance, abdominal strength, core strength, coordination activities, and other related activities to prepare the general well being of the athlete.

SCIENCE

Graduation Requirement: 4.0 credits

Physical Science [1.0 Credit] (Prerequisites: None)

(State Code/Course Name: 150802 Physical Science)

Physical Science is a beginning level science that aids students in their studies of chemistry and physics. During the first semester, chemistry is studied as students learn about the properties of matter, the modern atomic theory, and chemical bonding and reactions. During the second semester, students explore matter, energy, and mechanics. The primary goal of the class is to combat bad science in fields of chemistry and physics.

Biology [1.0 Credit] (Prerequisites: None)

(State Code/Course Name: 150301 Biology)

The primary concern in Biology is to combat bad science in biological studies by exploring God's creation and by discovering unrevealed truth. The class explores movement, irritability, cellular make up, reproduction, organization, biogenesis, sources of energy, chemical make up, assimilation of matter, and death of single cells through the classes Mammalia, Aves, Reptilia, Amphibia, Osteichthyes, and Chondrichthyes. Origins and systematics are studied. The students collect live specimens, perform dissections, and give PowerPoint presentations to allow hands-on learning in the living classroom.

Biology II Honors [1.0 Credit] (Prerequisites: completion of Biology I, Chemistry I, and Department Recommendation)

(State Code/Course Name: 150303 Biology II: Honors)

Biology II continues the work begun in Biology I by exploring specifically human anatomy and physiology. All of the major organ systems are explored. This includes integument, skeletal, muscular, circulatory, respiratory, digestive, and reproductive. The students will dissect; take field trips to collect specimens; and present PowerPoint presentations during each quarter to enhance hands-on learning. The students will be involved in a CSI unit, complete with a mock crime to solve.

Environmental Science [1.0 Credit] (Prerequisites: Biology I and senior standing or administrator approval)

(State Code/Course Name: 150310 Environmental Science)

Environmental Science explores the environmental ecological systems of the Earth as designed by creator God and utilizes scientific principles to study the interactions of these ecological and biological systems. The course studies man's Biblical responsibility to be good stewards of the Earth's resources through discussion of resource management and environmental awareness and protection. A special unit on Louisiana Wetlands covers environmental issues within our local region.

Physics [1.0 Credit] (Prerequisites: Algebra I, Algebra II, and Geometry)

(State Code/Course Name: 150000 Physics I)

Physics is the study of matter and energy. Physics focuses on the three states of matter and how they relate to energy and motion. Students study linear and rotary velocity and acceleration,

forces, energy, momentum, and how they work in our world.

Physics Honors [1.0 Credit] (Prerequisites: Algebra I, Algebra II, Geometry—C average or higher in each and Department Recommendation)

(State Code/Course Name: 150699 Physics: Honors)

Physics is the study of matter and energy. Physics focuses on the three states of matter and how they relate to energy and motion. Students study linear and rotary velocity and acceleration, forces, energy, momentum, and how they work in our world. Honors also involves modern physics.

Chemistry [1.0 Credit] (Prerequisites: Physical Science or Biology I, and Algebra I)

(State Code/Course Name: 150401 Chemistry)

This course provides a foundational knowledge of chemistry, an appreciation of its many benefits to mankind, and a better understanding of the precision and design of the physical world that God has created. It provides a mechanism for preparing students for college level Chemistry courses.

AP Chemistry [1.0 Credit] (Prerequisites: Chemistry I; Department Recommendation; and a cumulative GPA of 3.00 or higher)

(State Code/Course Name: 150410 Chemistry II: AP Chemistry)

AP Chemistry provides a more in-depth knowledge of chemistry, expanding on general chemistry concepts, especially emphasizing mathematics. It provides the information equivalent to a first college chemistry course. (Students will be prepared to take the Advanced Placement Chemistry Exam for college credit.)

ELECTIVES

Graduation Requirement: 3.0 credits for Class of 2014 and beyond

General Electives may be taken from any of the above courses, after required minimum courses have been successfully completed. Of the three electives required, one must be a fine arts course. ***Students must schedule a full course load of seven classes per day each year.***

ACT Preparation [0.5 Credit] (Prerequisites: None)

(State Code/Course Name: 400107 ACT Prep)

The ACT preparation class is designed to improve student's standardized testing skills by reviewing subject-area concepts covered on the ACT test and acquainting the students with the testing formats. In addition the class will introduce reasoning skills and thought processes necessary for students to be successful on standardized tests. Students will take multiple practice ACT tests during the course.

Leadership [0.5 Credit] (Prerequisites: None)

(State Code/Course Name: 041020 Leadership)

The leadership course introduces students to leadership skills, characteristics, and values based upon Biblical principles and examples. Students explore what it means to lead through a life submitted to God.