

# COURSE DESCRIPTIONS

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These course descriptions are designed to acquaint the learner with a brief synopsis of the subject.

## Bible

**603 Bible 9 Gender Based Discipleship** – In this Bible course, students will study the definitions of Biblical manhood and womanhood. By studying examples in scripture and timeless Biblical truths, students will come to understand their gender roles from a true biblical worldview. This is a practical course designed to help adolescent boys and girls make the transition to adulthood. *Text: Various*

**604 Bible 10 Redemption** – This course presents a unifying theme throughout the scriptures of God's Plan of Redemption. Topical units presented for the study are: The need for Redemption; The Nation through which Redemption comes; The Person of Redemption; An Explanation of Redemption; The end of Redemption.

*Text: Faith Quest (Lifeway series)*

**605 Bible 11** – This course establishes Christ-like character goals for students as they pursue their own quest of faith while developing a biblical world view. Topics for study include: Your beliefs; Personal Stewardship; Managing Financial Resources; Selecting a College and Career; Establishing Relationships in Marriage and Family;

*Text: Future Quest (Lifeway series)*

**606 Bible 12** – This course is a continuation of the Eleventh grade course as students pursue habits of faithfulness in their personal lives. The emphasis is on developing a biblical worldview that includes a study of Personal Ethics; Defending the Faith; Community Responsibilities; Being an Effective Citizen; Living by God's Design.

*Text: Future Quest (Lifeway series)*

## Business

**226 Accounting** gives students a thorough background in the basic accounting procedures used to operate a business. The accounting procedures presented serve as a sound background for employment in office jobs and preparation for business courses in college.

**223 Business Math** gives students a practical knowledge of mathematics in the real world. It includes application of computational skills to solve business and consumer problems. This course provides applications that students will find interesting and meaningful for their lives.

**122 Communications** is a one-semester course taught to seniors. This course includes principles of communication as well as instruction in practical communication skills such as public speaking, job interviews, personal introductions, listening, and responding.

## Computer/Technology

**734 Computer Applications Part I** is a one semester elective course that provides useful instruction in the history of computers and the Internet, basic computer and keyboarding skills, word processing, and basic spreadsheet skills. Emphasis is placed on learning skills needed to solve "real world" business problems productively.

**735 Computer Applications Part II** is a one semester elective course that provides useful instruction in advanced spreadsheet skills, databases, advanced word processing, and presentations.

The Computer Applications courses may be taken separately in any order or they may be taken sequentially as a full year course.

**736 Web Design** is a course where students learn how to design web sites, create and edit graphics, and design animations. Topics covered will include: web site planning, HTML coding, cascading style sheets, graphics design, JavaScript, Flash animations and user accessibility. Students will have the opportunity to use these skills to design and implement a fully functional web site as a final project.

**737 Desktop Publishing** is a course where students will learn to use desktop publishing and graphics software to create high-quality publications such as brochures, flyers and newsletters. As students learn how to use different aspects of the software, skills will be applied to individual and group publishing projects.

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**731 Computer Programming** The goal of this course is to provide an introduction to computer programming. No previous programming experience is required or assumed. However, students should be very comfortable with at least intermediate level computer tasks.

Students will learn how to design, develop and test their own computer programs using an easy-to-learn, object-oriented programming language. The types of programs students will develop include “console” or text-based programs, simple games, and Graphical User Interface (GUI) programs. This course has the added benefit of teaching students how to organize ideas in sequence and solve complex problems.

## English/Literature

**109 English 9** focuses on the conventions of short story, poetry, drama, novel, and essay. Through reading and writing, students develop critical thinking skills and analytical abilities. Students recognize that God’s life principles apply to people everywhere and are evident in good literature.

**113 Honors English 9** is designed to help honors students refine and expand their writing ability. The course integrates thinking, reading, writing, speaking, and listening skills, while understanding that God’s life principles are evident in good literature. Learning focuses on the genre conventions of short story, poetry, drama, novel, and essay.

**110 English 10** focuses on authors from around the world and traces Christian principles in world literature. Students are encouraged to read a wide variety of high literary quality materials: novels, poetry, short stories, essays, and plays and to respond to these through various types of writing, including the research paper.

**114 Honors English 10** challenges students to trace Christian principles in world literature by studying major authors, periods, forms, and works. Frequent essays, both analytical and personal, will be assigned, along with a research paper. Learning focuses on a study of short stories, poetry, drama, novels, and essays.

**111 English 11** challenges students to trace Christian principles in American literature. Students respond to literature through oral discussion and through analytical writing - Critical thinking skills, analytical skills, and various essay writing skills are developed, along with a research paper.

**115 Honors English 11** encourages the development of analytical and critical thinking skills. Christian principals in American literature are traced by studying major authors, periods, forms and works. Special emphasis is placed on the reading/writing connection as students reflect the variety of style and conventions that characterize quality writing and research.

**112 English 12** challenges students to recognize how classical British literature has transmitted the common cultural values of courage, self-sacrifice, Christian spiritual growth, appreciation of human diversity, and respect for human endeavor. The course integrates thinking, reading, speaking, writing, research, and listening skills, and an understanding that God’s life principles are evident in good literature.

**125 Honors English 12** is designed to help develop analytical and critical thinking skills. Through a study of major authors, periods, forms, and works, student trace Christian principles in British literature. Writing is emphasized, including a research paper, and much in-depth reading is required.

**116 AP Literature and Composition** presents an in-depth study of great literature from around the world. Writing is also emphasized, and frequent essays, both analytical and personal, will be assigned, along with a research paper. Students are expected to have mastered composition skills such as writing with a thesis and research paper techniques. Students must also have excellent reading skills in order to handle the significant amount of required reading.

**118 Creative Writing** provides an opportunity for the student to write daily and to cultivate creativity. The student is introduced to a variety of genres, including journaling, poetry, one-act plays, short stories, and nonfiction articles. While students gain practice in the mechanics of writing, they will begin to build a body of creative work based on principles of character development, setting, point of view, symbolism, and story structure.

## Fine Arts

**510 Art I** focuses primarily on developing drawing skills as well as observation techniques for the beginning artist. Drawings will be done in pencil, pen and ink, charcoal to gain an understanding of how black, white and gray can be used to define shape, show distance, and develop form. Pastels will be used to introduce color and impressionism. Students are encouraged to practice their developing skills by completing drawing exercises and by participating in class demonstrations.

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**512 Art II** focuses on the use of color in drawings and paintings.

Abstraction (simplification), Impressionism (effect of light on objects), and Expressionism (creating a mood or feeling with color) are the styles explored. Students will be expected to creatively apply skills developed in previous art courses, design for a specific assignment, and meet deadlines. Students will also research other artists and their work styles. Students will be expected to keep a journal and develop a portfolio of work.

**514 Art III** is designed for students who have a mastery of basic skills. Active participation in group critiques is essential. Other factors include daily attendance, completion of assignments on time, craftsmanship; Art III is comprised of a combination of class problems and independent work. Independent work is by contract on each project and is aimed at in-depth development of personal imagery and style. Class problems include: intensive drawing review, mastery of contour and gesture drawing, nature study, nature's geometry, portraiture, and color composition. Units of study include watercolor, oil and/or acrylic painting, nature's geometry and advanced three-dimensional work. Black and White Photography may be included depending on class size and interest. Art History is integrated into the course and may include a research project. Students are required to maintain a journal/sketchbook that documents their thought process.

**516 Art IV** is for students who have completed Art III and are interested in further advanced study for possible Art school portfolio preparation. Work may include, but is not limited to: advanced painting and drawing, three-dimensional mixed media work, as well as, independent projects designed to further develop the student's personal aesthetic expression. Students must have permission from the instructor to enroll in this advanced course.

## History/Government

These courses are offered at the College Prep and Honors level.

**309 History 9:** World History since 1500 directs students to think critically about the various forces that combined to shape the world today. Critical thinking and analysis are important in this course. Emphasis is placed on geographic impact, development of civic knowledge/responsibilities, and emerging economic systems within a chronological context.

**310 History 10:** United States History I is the first part of comprehensive two-year sequence that begins with history before 1900. The curriculum builds upon the World History and Geography courses and focuses on critical issues and events. This course not only helps each student understand the quest for freedom, opportunity, democracy in the United States, but it also helps the individual relate the significance of the past to their own lives.

**311 History 11:** United States History II covers the history of America from 1900 to the present. The course focuses on critical issues and events that encompass historic, geographic, economic and political literacy. The study of American history provides the opportunity for students to relate the significance of the past to their own lives, both private and public as well as to society.

**312 American Government** is a one semester course for seniors. Students draw on the knowledge and skills from the previous study of the United States, World History and Geography as background information. The course focuses on the origins and functions of government as well as the intellectual influences in the development of representative democracy in America. Through a detailed study of the United States Constitution, students become knowledgeable of the structure and workings of the United States government at all levels from local to national.

**312 Economics** is a one semester course for seniors. The course focuses on the workings and institutions of modern day economic systems and economic theory. Students apply the knowledge and understanding acquired in their study of economic factors over time to their study of contemporary problems in economics. The study of economics includes the use and interpretation of maps, charts, graphs, tables, and other expressions of statistical data.

## Mathematics

**209 Algebra I** is our entry level mathematics course for Cottage Hill Christian Academy. This course examines the basic structure of real numbers, algebraic expressions, and functions. The topics studied are linear equations, inequalities, functions and systems, quadratic equations and functions, polynomial expressions, and the elementary properties of functions. Problem solving and an understanding of these topics are the major themes of this course.

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**210 Geometry** describes one aspect of the inductive/deductive reasoning side of mathematics for Cottage Hill Christian Academy. This course develops a structured mathematical system through the deductive development of relationships in the plane and space developed intuitively in previous years. Students parallel and perpendicular lines, angle measure in triangle, direct and indirect triangles, transformations, the Pythagorean Theorem, geometric constructions, coordinate geometry, and surface area and volume of solids.

**224 Trigonometry/Pre Calculus** is a college preparatory course. It extends and integrates concepts from algebra and geometry. It includes a study of polynomial, rational, exponential, logarithmic and trigonometric functions, inverse and second degree relations and their graphs. Other topics include complex numbers, polar coordinates, vectors, sequences and series. First semester emphasis will be on Trigonometry. This course will require students to apply technology such as TI-83 or TI-84 graphing calculators, modeling, and problem solving. Vectors in two and three dimensions are studied and applied. Problem simulations are explored in multiple representations-- algebraic, graphic, and numeric.

**225 Honors Trigonometry/Pre Calculus** is a college preparatory course. This honors course is only for students seeking an honors diploma or advance mathematically minded students with a teacher recommendation. It will be more labor intensive than Trigonometry/Pre Calculus and will require greater responsibility from the student. It extends and integrates concepts from algebra and geometry. It includes a study of polynomial, rational, exponential, logarithmic and trigonometric functions, inverse and second degree relations and their graphs. Other topics include complex numbers, polar coordinates, vectors, sequences and series. First semester emphasis will be on Trigonometry. This course will require students to apply technology such as TI-83 or TI-84 graphing calculators, modeling, and problem solving. Vectors in two and three dimensions are studied and applied. Problem simulations are explored in multiple representations-- algebraic, graphic, and numeric.

**222 AP Calculus AB** includes differential and integral calculus with applications of previous math courses. The intent is preparation for college and/or one or more semesters of advanced placement calculus. Topics include: limits of a function, continuity, maxima and minima, area, volume, and other applications. **Students will prepare take the College Board Advanced Placement Exam.**

## Performing Arts

**754 Honors Choir** is a select group of students chosen by audition. Auditions are held the previous school year during the month of April or May. Honors Choir provides students with an opportunity to develop his/her musicianship and technique through singing. Through this class, students will increase musical literacy, skills, and knowledge of the vocal instrument. Students will also learn the values of effort, cooperation, organization, fellowship, self-discipline and dedication. Honors Choir will represent our school through various school functions and community organizations such as: retirement centers, PTF meetings, and local church services and activities. These students will also compete in several choral festivals and competitions such as AISA and ACSI.

**752 Music Appreciation** is a course that will explore the impact that music and musicians of various cultures, times, and places has had on society today. This course introduces production and performance of music, covers terminology, idioms, and elements of music, and will expand the understanding of American and world musical elements of rhythm, melody, harmony, and the notation and language of music as well as an introduction to songwriting and composition.

**765 Class Piano** is an introductory course to playing the piano. This course is offered to students with little or no formal training in music who desire to learn to play the piano. This course includes an introduction to the musical elements of rhythm, melody, harmony, and the notation and language of music as it relates to the piano keyboard.

**121 Drama** is an introduction to acting. It includes basic body movement, pantomime, improvisation, theatrical vocabulary and history. This course also emphasizes dramatic productions. The student will participate in a school production as well as skits performed in chapel services and may also perform for community organizations.

**743 Band** provides students with an opportunity to improve his or her musicianship and technique on their chosen instrument. During each band rehearsal, students practice the fundamentals of playing their instrument as well as rehearse music for performances. The band participates in varsity football games and pep rallies as well as full performances for Christmas and Spring. Some after-school rehearsals and performances may be required. This course will satisfy all of the fine arts requirement for graduation.

## Physical Education

**501 Physical Conditioning** develops lifetime attitudes regarding physical activities. The program is a sequence of experiences in a variety of activities that will challenge all ability levels. Emphasis is given to lifetime fitness and the understanding that one's lifestyle has a direct effect on one's quality of life. **801 Health** focuses on the correlation between our body being the temple of God and learning how to manage our body through a wellness approach. The health program will include such topics as mental health, safety and emergency care, nutrition, personal health, disease control, and physical fitness.

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## Psychology

**425 Psychology** develops within each student a desire to examine information about society and individuals. This is achieved through scientific and spiritual methods.

## Science

**409 Biology I** provides students with a solid foundation in the most basic concepts of biological science. Students learn problem solving skills, lab techniques, and reasoning skills. Emphasis is placed on chemical and cellular foundations and an in-depth study of five of the six kingdoms.

**419 Biology II** surveys the animal kingdom, human biology and ecology. Laboratory experiments will engage students in the practice of the scientific method and effective study skills reveal the continuity that exists between chapters. Required for Honors Diploma candidates.

**410 Chemistry I** covers the fundamental concepts of chemistry, as well as the facts and mathematical formulas which are vital to those concepts. Students learn to apply their knowledge by solving problems, performing lab experiments, and writing about their experiments in notebooks.

**412 Chemistry II** is an opportunity for those seniors pursuing a career in the sciences to earn more college-level chemistry experience. Students will perform in-depth studies of the periodic table and its constituent elements and will practice solving complex equations using chemistry-based formulas. Students will use this knowledge to explore detailed chemical reactions in both the lecture and laboratory setting.

**435 Human Anatomy** introduces the student to the structure and function of the human body through the evaluations enhanced by lab dissections of comparative anatomy, lectures and research projects.

**420 Physics** addresses the properties of physical matter, physical quantities, and their relationships. Students develop the ability to think critically through scientific demonstrations, intelligent decision making, and problem solving related to matter and energy. Required for Honors Diploma candidates.

## Foreign Language

**141 Spanish I** is an entry level course that provides ample materials to allow flexibility in concentrated learning skills. There is a focus on the listening, speaking, reading, and writing skills throughout all phases of instruction. The teacher models new vocabulary, dialogues, structure and pronunciation. The teacher also shares knowledge of Spanish culture, history, and geography. Speaking skills are developed simultaneously with the listening component. Required for Honors Diploma candidates.

**142 Spanish II** reinforces the components learned in Spanish I, while providing new materials to challenge the student's knowledge of the language. There is a focus on the listening, speaking, reading, and writing skills throughout all phases of instruction. The teacher also shares knowledge of Spanish culture, history, and geography. Required for Honors Diploma candidates.

**143 Spanish III** is a weighted, in-depth course for students that have demonstrated a love, interest, and proficiency in the Spanish language. It exposes the students to Latin-American literary forms, geography, culture, and socioeconomic issues. The students are encouraged to think critically and are challenged to expand their listening, speaking, reading and writing skills in a relaxed but concentrated classroom environment.