

High School Curriculum Overview

Bible

Grade 9 <ul style="list-style-type: none">• Attributes of God• Inductive Bible Study Method of examining scripture• Exposition of the Book of James• Angels, demons, and Satan	Grade 10 <ul style="list-style-type: none">• Various cults in America compared with scripture• <u>Theology Proper: The Study of God</u>• Life meaning when we desire God• In depth study of I Corinthians
Grade 11 <ul style="list-style-type: none">• Study of Bibliology: how the Bible came to be, how we know it is trustworthy, and what that should mean for our walk with God• Four main personality types and how these affect our service within the Body of Christ• Learning to build relationships with others with the intent of introducing them to Christ through the practice of relational evangelism	Grade 12 <ul style="list-style-type: none">• Deepening Biblical worldview• Christianity compared with Islam, secular humanism, Marxism, cosmic humanism, and postmodernism• Theology, philosophy, ethics, biology, psychology, sociology, law, politics, economics, and history from a biblical perspective• Critical thinking leading to Biblical conclusions

Chapel: Weekly for grades 9-12

- Student-led praise teams
- Guest speakers of pastors, teachers, camp directors, missionaries and professional speakers
- Student testimonies, drama performances, and individual speakers
- Student-led small groups
- Spiritual or Missions Emphasis Weeks with increased chapel activities

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English

<p>Grade 9</p> <ul style="list-style-type: none"> • Review grammar, capitalization, and punctuation rules • Read short stories and related vocabulary Read <i>Romeo and Juliet</i> and <i>The Miracle Worker</i> • Read non-fiction essays • Read <i>The Odyssey</i> • Read <i>Great Expectations</i> • Write narrative and descriptive essays and expository book reports • Study poetry and create poetry notebook 	<p>Grade 10</p> <ul style="list-style-type: none"> • American Literature • Study literature from Early Native American to present and evaluate in the light of God’s Word • Early American writings <ul style="list-style-type: none"> ▪ Romanticism ▪ Transcendentalism ▪ Realism ▪ Naturalism ▪ Modernism • Read <i>The Scarlet Letter</i> by Nathaniel Hawthorne • Students review basic grammatical concepts. • Writing – Students learn and apply proper writing skills. <ul style="list-style-type: none"> ▪ Book critiques ▪ Research paper (follows MLA standards) • Weekly SAT Spelling/Vocabulary •
<p>Grade 11</p> <ul style="list-style-type: none"> • Review grammar, capitalization and punctuation rules • Read chronological selections from British literature from Anglo-Saxon era to the 20th century: poetry, nonfiction, short stories • Study several Shakespeare plays, including <i>Macbeth</i> • Read “The Importance of Being Earnest” and <i>Animal Farm</i> • Write MLA-style research paper 	<p>Grade 12</p> <ul style="list-style-type: none"> • Review grammar, capitalization and punctuation rules • Read chronological selections from British literature from Anglo-Saxon era to the 20th century: poetry, nonfiction, short stories • Study several Shakespeare plays, including <i>Macbeth</i> • Read “The Importance of Being Earnest” and <i>Animal Farm</i>
<p>Grade 12 – AP English</p> <ul style="list-style-type: none"> • British Literature • Writing preparation for AP exam 	<p>Grades 11 and 12 – Advanced Writing Elective</p> <ul style="list-style-type: none"> • Meets two days each week • Write a variety of essay types: descriptive, narrative, classification, analysis, synthesis, etc. • Prepare a short fiction story • Examine quality writing and practice peer editing • Read <i>Seedfolks</i> and write a personal narrative “chapter”

High School Curriculum Overview

Science

Grade 9 – Physical Science

- Philosophy of science
- Measurement of matter
- Properties and classification of matter
- Models of atoms
- Periodic table
- Forces between atoms
- Energy and momentum
- Mechanics
- Work and machines
- Heat and temperature
- Sound waves
- Electromagnetic spectrum

Grade 10 – Biology

- Animal kingdom
- Creation vs. evolution
- Human anatomy and physiology
- Cell structure
- Cellular processes
- Bacteria and viruses
- Kingdom protista
- Plants

Grade 10 – Honors Biology

- Animal kingdom
- Creation vs. evolution
- Philosophy of science
- Basic chemistry
- Cell structure and function
- Cellular processes
- Genetics
- Biotechnology
- Bacteria and viruses
- Kingdom protista
- Plants

Grade 11 – Environmental Science

- Identify species of plants and wildlife common to Pennsylvania.
- Form the basic framework of how they relate to each other and to us.
- Interweave basic principles of science with energy, soils, forestry, wildlife, aquatics, and resource utilization.
- Develop a responsible Christian attitude rather than the prevalent “Earth First” philosophy of today.

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Science (Continued)

Grade 11 – Chemistry <ul style="list-style-type: none">• Matter and change• Scientific measurement• Atomic structure• Electron and the quantum mechanical model• Periodic table• Ionic, metallic and covalent bonding• Chemical names and formulas• Chemical quantities and reactions• Stoichiometry• States of matter• Behavior of gasses• Water and aqueous systems• Solutions	Grade 12 – Physics <ul style="list-style-type: none">• Mechanics• Properties of matter• Light and Sound• Newton’s Laws• Magnetism• Relativity• Nuclear fusion and fission
Grade 12 – Anatomy and Physiology <ul style="list-style-type: none">• Eleven body systems• Structure and function of human body• Basic concepts of sports physiology and a healthy, well-balanced lifestyle• First-Aid and CPR certification• Blood donation process and blood drive	Grade 12 – AP Biology <ul style="list-style-type: none">• Cellular structure and function• Cellular processes, reproduction, and genetics• Evolution vs. creation• Form and function of animals and plants• Ecology

Mathematics

Grades 9 and 10 – Algebra I <ul style="list-style-type: none">• Evaluation of expressions involving signed numbers, exponents, roots, and absolute value• Equations and inequalities involving absolute value• Scientific notation• Unit conversions• Solution of equations with one unknown variable• Solution of simultaneous equations• The algebra of polynomials and rational expressions• Word problems involving algebra for their solution• Graphing points and lines• Pythagorean theorem• Functions and functional notation• Direct and inverse variation	Grade 10 and 11 – Algebra II <ul style="list-style-type: none">• Families of functions<ul style="list-style-type: none">▪ Linear and quadratic▪ Exponential and logarithmic▪ Radical and rational▪ Polynomial• Linear equations and linear systems• Factoring• Matrices• Rational exponents• Counting methods and probability• Conic sections• Sequences and series
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Mathematics (Continued)

<p>Grades 11 and 12 – Business Math</p> <ul style="list-style-type: none"> • Use basic math principles and apply them in real world business situations • Learn how to manage money in everyday household situations • Salary and commission • Benefits • Budgeting • Banking • Investing and Insurance • Balance sheets • Marketing • International funds 	<p>Grades 10, 11 and 12 – Geometry</p> <ul style="list-style-type: none"> • Reasoning and problem solving skills • Congruence and similarity • Apply properties of lines, triangles, quadrilaterals and circles • Perimeter • Area • Surface area • Volume • Data analysis • Probability • Transformations
<p>Grades 10, 11 and 12 – Pre Calculus</p> <ul style="list-style-type: none"> • Topics include advanced algebra • Geometry • Trigonometry • Discrete mathematics • Rectangular and polar coordinates • Complex numbers • Matrix algebra • Determinates • Binomial theorem • Conic sections 	<p>Grade 12 – Calculus</p> <ul style="list-style-type: none"> • Designed for mathematics , engineering, business, physics and life science majors • Analytical geometry • Limits • Derivatives • Differentiability • Integration • Matrix algebra
<p>Grades 11 and 12 – Accounting</p> <ul style="list-style-type: none"> • Accounting terms and procedures for financial accounting • Analyze and journalize business transactions • General ledger posting and payroll accounting • Checkbook balancing • Automated solutions • Manual simulation of a business 	

High School Curriculum Overview

Social Studies

Grade 9 – World History

- Study of world history from the Greeks to modern times
- Emphasis on the Judeo-Christian heritage of Western Europe
- Explore important events and people and their impact on history
- Emphasis on tracing God’s plan through history

Grade 10 – U.S. History I

- Appreciate the sovereign timing and control of God in our beginnings
- Understand the Christian heritage of our nation and the sacrifices made to establish and maintain that heritage
- Be motivated to be involved in defending our Christian values
- Recognize important persons and their contribution to our culture
- Develop a sense of chronology of the growth of our nation
- Appreciate genuine leadership through learning portions of key American speeches
- Know how our government evolved from the colonial era to Reconstruction
- Discuss causes, events, and results of the Civil War on American life

Grade 11 – Economics

- Understand basic economics and the Christian values necessary for them.
- Be motivated to be good stewards of resources as a Christian citizen of America.
- Grasp the basic economic laws and factors of production.
- Understand the structure and function of a market economy.
- Compare forms of economies and know the advantages of a free market economy.
- Study case studies of businesses and the stock market.
- Compare conservative and liberal economic thought.
- Evaluate different economic systems in the light of God’s Word.

Grade 11 – Government

- Motivate students to seek their places of service as Christian citizens of America.
- Understand the structure and function of American government.
- Compare forms of government and know why government was ordained by God.
- Understand basic economics and the Christian values necessary in government.
- Compare conservative and liberal journalism and thought.
- Know how we have departed from our original form of government and what is necessary to restrain this trend.
- Evaluate different economic systems in the light of God’s Word.

Grade 12 – United States History II

- Appreciate the hand of God in our history from the Gilded Age to the present.
- Understand our Christian heritage and the various forces that have eroded it in the course of our history.
- Be motivated to stand and make a difference for Christ in our culture.
- Recognize the role of various cultures and individuals in forming modern America.
- Learn to develop their abilities to analyze written materials and form written arguments based on them.
- Discuss causes and results of major trends in modern America.
- Reinforce basic knowledge of geography and American government.
- Develop a sense of responsibility for the preservation of our nation.

Grade 12 – AP U.S. History

- Provide students with the analytic skills and factual knowledge necessary to deal critically and Biblically with the problems and materials in U. S. History.
- Learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship.
- Develop skills necessary to arrive at conclusions on the basis of an informed judgment and to present ideas clearly and persuasively.

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World Language

<p>Grade 9 – Spanish I</p> <ul style="list-style-type: none"> • Intensive oral segment introduces students to everyday vocabulary, proper pronunciation, and simple dialogues • Grammatical considerations include present, imperfect and preterit tenses of regular verbs and of several irregular verbs; basic sentence structure, use of object pronouns; expanded vocabulary; and composition and translation practice • Relevant cultural information will be added through videos, guest speakers, Scripture memorization, and cultural information from text 	<p>Grade 10 – Spanish II</p> <ul style="list-style-type: none"> • Grammatical considerations include future and conditional tenses, reflexive verbs, stem-changing verbs, and an expanded study of irregular verbs in five tenses • Vocabulary will expand as will oral/aural comprehension skills, especially with a second-semester use of reader-based curriculum (short novels, short stories) • Relevant cultural information will be added through videos, reading selections, outside speakers, and Scripture memorization
<p>Grade 11 – Spanish III</p> <ul style="list-style-type: none"> • New grammar includes all four indicative perfect tenses of regular and irregular verbs as well as any grammar incidental to the Spanish III, reader-based curriculum (short novels, folk stories, <i>Lazarillo de Tormes</i>) • Continued practice of composition skills and oral/aural comprehension skills • Create a child’s book completely in Spanish • Relevant cultural information will be added through videos, reading selections, outside speakers, and Scripture memorization 	<p>Grade 12 – Spanish Iv</p> <ul style="list-style-type: none"> • New grammar study thoroughly covers subjunctive mood • Read full length novels and current items in Spanish as well as samples of classical Spanish literature (<i>Don Quijote, Marianela</i>). • All aspects of class time conducted in Spanish as much as possible • Relevant cultural information will be added through videos, reading selections, outside speakers, and Scripture memorization
<p>Grade 9 – 12 – Introductory Latin</p> <ul style="list-style-type: none"> • Strong emphasis will be placed on English-Latin derivatives • Grammar study includes basic sentence structure, 1st and 2nd declensions, three primary tenses of 1st and 2nd conjugation verbs and vocabulary acquisition • Roman heritage/culture, especially first century characteristics are explored 	

Grades 10 – 12 – Yearbook

<ul style="list-style-type: none"> • Mount Calvary Christian School yearbook is called <u>The Sword</u> • Full year class • Students learn layouts, type copy, and picture cropping
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High School Curriculum Overview

Technology Education

Grades 9 – 12 – Advanced Microsoft Office and Integration <ul style="list-style-type: none">• Microsoft Publisher• Microsoft Access• Advanced word processing• Advanced spreadsheet applications• Introductory programming in VBA• Integration of office applications	Grades 9 – 12 – Computer Programming I <ul style="list-style-type: none">• Programming concepts• Logical design• Visual basic forms• Mini-applications• Program maintenance and revision
Grades 10 – 12 – Computer Programming II <ul style="list-style-type: none">• Advanced programming techniques• Larger algorithm design• Project implementation cycle	Grades 9 – 12 – Web Site Design <ul style="list-style-type: none">• Learn HTML basics• Create web sites for progressively advanced situations• Construct framesets and Image maps online• Use online design tools to compare to HTML design

Physical Education

Grades 9-11 <ul style="list-style-type: none">• Increased skill on previously learned team competitions• Increased skill on previously learned major sports units• Increased skill on previously learned minor sports units• Presidential fitness testing for overall student fitness evaluations• Evaluation on the history, natures and rules of the major sports• Evaluation on the skills of major sports	Grade 12 – Family Living <ul style="list-style-type: none">• Seniors study the Christian Family<ul style="list-style-type: none">▪ Dating▪ Engagement▪ Marriage▪ Parenthood• Unit on financial planning
Grade 12 – Lifetime Sports <ul style="list-style-type: none">• Coed Physical Education• Learn the history of various lifetime sports• Learn nature, rules and skills of lifetime sports• Sports include golf, tennis, volleyball, and bowling.	

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Music Education

<p>Senior High Chorus</p> <ul style="list-style-type: none"> • Comprised of students in grades 9 – 12 • Includes instruction in concert performance techniques, music reading, and advanced vocal techniques • Performs at the annual winter and spring concerts, chapels, High School ACSI Fine Arts Festival and may perform 2 – 3 times in the community • Takes a four day tour in the spring • Students are required to attend a music retreat in the fall • Participation is subject to approval by the director 	<p>Senior High Band</p> <ul style="list-style-type: none"> • Is available for qualified students in grades 9 – 12 • Expands on the MS band curriculum by adding more difficult literature as well as musical styles and musical elements • Performance opportunities include chapels, winter and spring concerts, HS ACSI Fine Arts Festival, and other possible community venues • New students entering the program must have an audition with the director • Though private lessons are not required for all students, they are strongly recommended 	<p>Other Offerings by Audition</p> <p>Hallel</p> <ul style="list-style-type: none"> • Ensemble auditioned from the HS Chorus • Performs more advanced vocal literature, much of which is a cappella <p>Spring Drama Production</p> <ul style="list-style-type: none"> • The Fine Arts Department sponsors a major play and musical on alternating years. <p>Instrumental Ensembles</p> <ul style="list-style-type: none"> • Based on student interest and qualifications • Performances at ACSI Fine Arts Festivals as well as at school concerts and chapels
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Art Education

<p>Art I</p> <ul style="list-style-type: none"> • Exploration of the elements of design 	<p>Art II</p> <ul style="list-style-type: none"> • Exploration of the principles of design 	<p>Art III</p> <ul style="list-style-type: none"> • In-depth experimentation on various media of the visual arts. 	<p>Art IV</p> <ul style="list-style-type: none"> • Independent studio experience to produce entrance portfolio for art school.
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Supported Instruction Program

<ul style="list-style-type: none"> • Assists students who are experiencing academic difficulties • Gives students the support needed in a one-on-one or small group environment • Concentrates on having students return to the regular classroom and perform independently without assistance or modifications • Functions as a lab for students working on independent studies
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