



CHRISTIAN SCHOOL

Molding Children for Christ's Service

HIGH SCHOOL CURRICULUM OVERVIEW

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High School Curriculum Overview

Bible

Grade 9 – Basics of the Christian Life <ul style="list-style-type: none">• Study on prayer• How to deal with temptation• How to communicate the gospel• Daily living• Practicing spiritual discipline	Grade 11 – Basic Doctrines of the Faith <ul style="list-style-type: none">• Anthropology – The study of man (creation, sin, nature etc.)• Soteriology – The study of salvation (need and meaning of salvation and forgiveness)
Grade 10 <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• Study of End Times• Learning to build relationships with others with the intent of introducing them to Christ through the practice of relational evangelism• Memorize the entire book of James• Power Point Study of James	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• Blending in the Truth Project

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• Read short stories and learn related vocabulary• Read <i>Romeo and Juliet</i>• Read non-fiction essays• Read “The Odyssey”• Read <i>Great Expectations</i>• Write a variety of essays, book reports and history research paper• Create a “theme project” on a chosen subject, including research paper, oral report, and two book reviews• Study poetry and create poetry notebook	<p>Grade 10- American Literature</p> <ul style="list-style-type: none">• Read a chronological study of selections from American literature from early American to the present, evaluated in the light of God’s Word• Read <i>The Scarlet Letter</i>• Review basic grammar, punctuation, and capitalization• Writing – students learn and apply proper writing skills.<ul style="list-style-type: none">○ Paragraphs○ Essays○ Book critiques○ Sample standardized tests• Weekly SAT Spelling/Vocabulary
<p>Grade 11- British Literature</p> <ul style="list-style-type: none">• Read a chronological study of selections from British literature from Anglo-Saxon era to the 20th century, evaluated in the light of God’s Word• 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 11- Advanced Placement English</p> <ul style="list-style-type: none">• British literature curriculum• Practice AP exams• Summer reading required, as well as extra reading, writing, and memorization	<p>Grade 12- World Literature and Advanced Composition</p> <ul style="list-style-type: none">• Study a variety of world literature, including drama, poetry, and novels<ul style="list-style-type: none">○ <i>Antigone</i>○ <i>Julius Caesar</i>○ <i>Les Miserables</i>○ <i>The Pearl</i>○ <i>Cry, the Beloved Country</i>• Prepare for advanced writing, including grammar review, writing essays, journals, and a research paper

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Science

Grade 9 – Physical Science

- Science skills
- Properties and classification of matter
- Models of atoms
- Periodic table
- Chemical bonds
- Chemical reactions
- Nuclear chemistry
- Motion
- Forces and motion
- Work and machines
- Heat and temperature
- Sound waves
- Electromagnetic spectrum

Grade 10 – Biology

- Philosophy of Science
- Cytology
- Cellular processes
- Classification
- Creation/evolution
- Zoology
- Human anatomy and Physiology
- Botany

Grade 10 – Honors Biology

- Philosophy of Science
- Basic Chemistry
- Cytology
- Cellular processes
- Genetics
- Creation/evolution
- Classification
- Bacteria and viruses
- Kingdom Protista
- Kingdom Fungi
- Zoology
- Botany

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

- 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

- Mechanics
- Properties of matter
- Light and Sound
- Newton's Laws
- Magnetism
- Relativity
- Nuclear fusion and fission

Grade 12 – Anatomy and Physiology

- 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

- Basic Chemistry review
- Organic molecules
- Cytology
- Photosynthesis
- Cellular respiration
- The Cell Cycle
- Genetics
- Molecular Biology
- Biotechnology
- Evolution/creation
- Botany
- Ecology

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Mathematics

<p>Grades 9 and 10 – Algebra I</p> <ul style="list-style-type: none"> • Evaluation of expressions involving signed numbers, exponents, roots and absolute value • Equations and inequalities, including absolute value • Scientific notation • 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 and writing equations for points and lines • Pythagorean theorem • Functions and functional notation • Direct and inverse variation 	<p>Grade 10 and 11 – Algebra II</p> <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 • Graphing polynomials
<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 9 & 10 – 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 • Basic Trigonometry • 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 • Binomial theorem 	<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

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Grades 11 and 12 – Accounting	
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- 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

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Social Studies

Grade 9 – World Geography <ul style="list-style-type: none">• Basics of geography: maps, weather, terminology, economic and political systems• Extensive map work covering all the countries of North and South America, Europe, Asia and some in Africa• Detailed information about each of these countries to include capitals, landmarks, etc.• Research paper and oral report on country of choice	Grade 10 – World History <ul style="list-style-type: none">• Study of world history from Creation 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• Reinforce geography skills through map exercises
Grade 11 – Economics <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• Motivate students to seek their place of service as a Christian citizen 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 <ul style="list-style-type: none">• 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 on geography and American government.• Develop a sense of responsibility for the preservation of our nation.	Grade 12 – AP U.S. History <ul style="list-style-type: none">• 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

Grade 8 <ul style="list-style-type: none">• Appreciation of Spanish culture around the world• Vocabulary presented relates to student's world: numbers, months, days, seasons, clothing, colors, familiar locations and telling time• Simple conversation phrases• Basic grammar concepts: noun-adjective agreement, gender and formation of plurals• Question-answer sentence format	Grade 9 – Spanish I <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
Grade 10 – Spanish II <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	Grade 11 – Spanish III <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
Grade 12 – Spanish IV <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</i>, <i>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• Community-based, service-oriented field trip	Grade 10 – 12 – Introductory Latin <ul style="list-style-type: none">• Strong emphasis will be placed on English-Latin derivatives• Grammar study included 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

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Physical Education

Grades 9-12

- 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.

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Art Education

Art I <ul style="list-style-type: none">• Exploration of the elements of design	Art II <ul style="list-style-type: none">• Exploration of the principles of design	Art III <ul style="list-style-type: none">• In-depth experimentation on various media of the visual arts.	Art IV <ul style="list-style-type: none">• Independent studio experience to produce entrance portfolio for art school.
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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 with application to a variety of music genres• 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• Gives a Dessert Recital in the fall	<p>Concert Band</p> <ul style="list-style-type: none">• Available for qualified students in grades 6 – 12• Includes instruction in theory, sight-reading and other musical elements• Performance is of a variety of musical genres on increasing levels of difficulty• Performance opportunities include chapels, winter concert and band concert in the spring, HS ACSI Fine Arts Festival and other community venues• New students entering the program must have an audition with the director• Private lessons are strongly recommended for HS students and required for MS• Students may be required to attend a music retreat in the fall	<p>Other Offerings</p> <p>Hallel</p> <ul style="list-style-type: none">• 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 which may include Middle School students• Subject to audition <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• Private lessons available on piano, guitar, most band instruments and voice
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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

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Grades 10 – 12 – Yearbook

- Mount Calvary Christian School yearbook is called The Sword
- Full year class
- Students learn layouts, type copy and picture cropping (Everything is done on the computer)

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Supported Instruction Program

- Assists students who are experiencing academic difficulties
- Give 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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