

# Hillcrest Christian High School Graduation Requirements and Course Descriptions

## Graduation Requirements

Students entering high school must consider the graduation requirements when choosing subjects each year.

Graduation requirements are:

Bible\* (40 credits, 4 years)

English (40 credits, 4 years)

Social Studies/History including World History, US History and US Government/Economics (30 credits, 3 years)

Science (20 credits, 2 years)

Math (30 credits, 3 years)

Visual or Performing Arts (10 credits, 1 year)

Physical Education (20 credits, 2 years)

Electives (50 credits)

The total minimum credits required to graduate is 240 *plus* a minimum cumulative GPA of 2.0.

\*Bible is required for each semester of attendance at Hillcrest Christian High School. Required Bible credits are waived for any semester the student does not attend Hillcrest Christian High School. The total waived Bible credits are added to the required elective credits keeping the total credits required for graduation at 240.

## ADVANCED PLACEMENT CLASSES

- Any student taking an AP class will be required to take the AP Test.
- Payment of the entire fee for an AP Test is to be paid when billed.

Admission to AP classes will be based on whether the student attained a “B” in the subject area during the previous course.

## SAMPLE FOUR-YEAR EDUCATIONAL PLANS

### For the University-Bound Student

Ninth Grade  
First Semester  
English 9A  
Mathematics\*  
World History  
Health  
Bible 9  
Fine Art or Spanish 1  
Physical Education

Ninth Grade  
Second Semester  
English 9B  
Mathematics\*  
World History  
Life Skills  
Bible 9  
Fine Art or Spanish 1  
Physical Education

Tenth Grade  
First Semester  
English 10A  
Geometry or Algebra 2  
Biology A  
Bible 10  
Fine Art

Tenth Grade  
Second Semester  
English 10B  
Geometry or Algebra 2  
Biology B  
Bible 10  
Fine Art

Spanish 1 A  
Physical Education

Eleventh Grade  
First Semester  
English 11 A or AP English  
U.S. History A or AP US History  
Algebra 2 A or Pre Calculus A  
Chemistry  
Spanish 2 A or Spanish 3 A  
Bible 11 A  
Elective

Twelfth Grade  
First Semester  
English 12 A or AP English  
Government or AP Government  
Bible 12 A  
Pre Calculus A or AP Calculus A  
Physics or Anatomy/Physiology  
Elective  
Spanish 3 or Elective

Spanish 1 B  
Physical Education

Eleventh Grade  
Second Semester  
English 11 B or AP English  
U.S. History B or AP US History  
Algebra 2 B or Pre Calculus B  
Chemistry  
Spanish 2 B or Spanish 3 B  
Bible 11 B  
Elective

Twelfth Grade  
Second Semester  
English 12 B or AP English  
Economics or AP Microeconomics  
Bible 12 B  
Pre Calculus B or AP Calculus B  
Physics or Anatomy/Physiology  
Elective  
Spanish 3 or Elective

\*Mathematics course in Algebra must be completed. Junior High work accepted

**For the Vocational or Community College-bound student.**

Ninth Grade  
First Semester  
English 9A  
Mathematics\*  
World History  
Health  
Bible 9  
Fine Art  
Physical Education

Tenth Grade  
First Semester  
English 10A  
Mathematics\*  
Biology A  
Bible 10  
Fine Art  
Spanish 1 A  
Physical Education

Eleventh Grade  
First Semester  
English 11 A  
U.S. History A

Ninth Grade  
Second Semester  
English 9B  
Mathematics\*  
World History  
Life Skills  
Bible 9  
Fine Art  
Physical Education

Tenth Grade  
Second Semester  
English 10B  
Mathematics\*  
Biology B  
Bible 10  
Fine Art  
Spanish 1 B  
Physical Education

Eleventh Grade  
Second Semester  
English 11 B  
U.S. History B

Mathematics\*  
Chemistry or Anatomy/Physiology A  
Spanish 2 A  
Bible 11 A  
Elective

Mathematics\*  
Chemistry or Anatomy/Physiology A  
Spanish 2 B  
Bible 11 B  
Elective

Twelfth Grade  
First Semester  
English 12 A  
Government  
Bible 12 A  
Elective

Twelfth Grade  
Second Semester  
English 12 B  
Economics  
Bible 12 B  
Elective

\*Mathematics course in Algebra must be completed. Junior High work accepted

### **Bible**

The Bible curriculum promotes the understanding, interpretation, and application of biblical truth. The faculty seeks to help every student develop a world view in which the principles and values of the Bible are applied to the whole of life. Additionally, the development of Christian character and basic Bible knowledge content will equip students for service in the local church and effective witness for Christ in whatever God-honoring careers they pursue.

#### Bible 9

Mastering Bible Study  
1 semester 5 credits

Grade 9

Mastering Bible Study will equip students to study the Bible for themselves. It is designed to build enthusiasm for Bible study, with the teacher as the main encourager. It introduces three main steps for inductive Bible study: 1. Observation- looking at contrasts and comparisons, repetitions, figures of speech, key words and principles, 2. Interpretation- writing a simplified explanation for a person who does not speak English well, emphasizing the meaning of the passage and 3. Application – looking within themselves and applying Scripture to their lives.

**Text:** *Mastering Bible Study Skills* ISBN: 1583311289  
*NIV Bible*

Ethics  
1 semester 5 credits

Grade 9

This course presents God's principles of living as presented in His Word, the Bible. His Word shares secrets or principles of Christian living and decision making. Topics covered include morality, sexuality, earthkeeping, wealth, and poverty, racism and bigotry, medical ethics and peace.

**Text:** *Exploring Ethics* ISBN: 0874639780  
*NIV Bible*

#### Bible 10

Old Testament Survey  
1 semester 5 credits

Grade 10

This course provides an overview of the authorship and contents of the entire Old Testament, particularly noting how God worked in history to prepare people for the coming of His Son. Emphasis is placed on the foundational issues of Old Testament history and interpretation. Brief consideration is given to the entire Old Testament.

**Text:** *God's Unfolding Plan* ISBN: 0874639743  
*NIV Bible*

New Testament Survey

Grade 10

1 semester 5 credits

This course gives the student an overview of the authorship, general contents, and primary messages of the 27 books of the New Testament, as well as studies related to the question of human suffering, sharing Christ with others, and finding God's direction for one's life. Emphasis is placed upon the life and teachings of Jesus in the Gospels and upon the expansion of early Christianity in Acts. The teachings of the Pauline Epistles and the General Epistles and Revelation are also considered.

**Text:** *Hope of the World* ISBN: 087463976X  
*NIV Bible*

### Bible 11

Understanding the Times

Grade 11

2 semesters 10 credits

This course gives the student opportunities to study different world views that currently battle for the hearts and minds of young people. It will enable the student to be prepared to think biblically about all areas of life, helping them to clearly understand the tenets of the leading worldviews of our day, including Islam, secular humanism, Marxism, New Age and postmodernism. The examples and applications studied, such as apologetics, bioethics, cults, leadership, radical environmentalism, feminism, religious pluralism and scriptural reliability will help students understand the context of their community and will reinforce the crucial principle that "ideas have consequences".

**Texts:** *Understanding the Times* ISBN: 936163224  
*Understand the Times Workbook* ISBN: 1583311270  
*NIV Bible*

### Bible 12

Grade 12

Marriage and Family

1 semester 5 credits

This course addresses a subject of vital interest to students-relationships. It presents the Christian principles involved in dating, marriage and the family, and offers practical guidelines for establishing and maintaining a Christian marriage based on those principles. The class discusses worldly values that are opposed to marriage and the family, with the goal of making students aware of those values and able to resist them. Student participation and a hands-on approach are used through the course. A variety of activities are presented.

**Text:** *One Plus One* ISBN: 1583311233  
*NIV Bible*

### Life Shaping Decisions

Grade 12

1 semester 5 credits

This class challenges students with a Biblical concept of career stewardship, while providing resources to help them build their own career plans wisely and faithfully. Lessons lead them to discover their talents, to understand important principles of decision making, and to determine the will of God for their career. Exercises and activities lead students to apply biblical values to their career planning. A key objective is to allow students to construct a post-high school plan of action that reflects knowledge gained through the course. Required for graduation from HCS

**Text:** *Life-Shaping Decisions* ISBN: 1583511211  
*NIV Bible*

### **Computer**

Computer 1 Elective course

Grades 9-12

2 semesters 10 credits

Prerequisite: Keyboarding skills

Computer 1 is a course designed to help develop the fundamentals of MS Office. It consists of the applications using Word, Excel, and PowerPoint. It will acquaint students with the proper way to solve word processing problems and illustrate practical applications and presentations.

## English/Language Arts

The English Department offers classes which are heterogeneously grouped, with the exception of AP classes. Formal writing as a process is introduced at the freshman level and reinforced throughout the following years of instruction. Spelling, grammar, vocabulary, and usage are taught and integrated into the context of the core literature. English 9, 10, 11, and 12 are year-long courses required for graduation. As God communicates through His Word, He has given man the ability of and love for communication. God's Word not only communicates His love for man, but gives encouragement to communicate effectively and truthfully as well. At HCS we strive to develop the ability to communicate effectively, accurately, responsibly and truthfully as well as the ability to evaluate the structure and meaning of literature from a Biblical point of view.

**Credit Requirements:** Students must earn at least 40 credits for graduation.

## Recommended College Prep Courses

*Fulfills "b" requirement for UC and CSU*

English 9, 10, 11, 12

AP English Literature

AP English Language

### English 9

UC/CSU Approved

Grade 9

2 semesters 10 credits

Students work to develop competence and develop God given talents in writing clear, coherent, correct sentences and paragraphs, and to develop critical thinking and reading skills as they are demonstrated in discussion and writing. Examples of short stories, novels, plays, non-fiction, and poetry are examined to determine the relationship of form and content, and to develop in the student the ability to see beyond the printed word into the intent of the writer. Through discussion and writing assignments, the teacher will emphasize why and how a writer achieves his intended aim. Special attention will be given to usage errors such as sentence fragments and run-ons, confusion of adjectives and adverbs, and unclear word use in student writing. Review of grammar and vocabulary instruction will be included.

#### **Texts:** Summer Reading

Students entering 9<sup>th</sup> grade

*This Present Darkness* by Frank E. Peretti ISBN: 9780842361712

*The Hobbit* by J.R. Tolkien ISBN: 9780345339683

School year

*Elements of Literature 3* ISBN: 0-03-068376-9

*Writing & Grammar 9* ISBN: 1579244475

*Great Expectations* by Charles Dickens ISBN: 9780451526717

*Of Mice and Men* by John Steinbeck ISBN: 9780140177398

### English 10

UC/CSU Approved

Grade 10

2 semesters 10 credits

English 10 expands on the critical reading, thinking, and writing skills attained in the preceding year by examining challenging short stories, novels, plays, poetry, and non-fiction. The difficulty level in the materials read, discussed, and written about exceeds that of the previous course. The course includes an intensive review of fundamental grammar, usage, and mechanical skills of writing, with special attention given to creation of thoughtful essays. The primary objective of the class is challenge each student to discover how well they can do using the skills that God has given them, while continuing to develop each student's ability to write clear, correct, coherent, and interesting multi-paragraph compositions.

#### **Texts:** Summer reading

Students entering 10<sup>th</sup> grade

*The Count of Monte Cristo* by Alexandre Dumas ISBN: 9780451529701

School year

*Elements of Literature IV* ISBN: 0-03-068377-7

*Writing & Grammar 10* ISBN: 1579246478

*Lord of the Flies* William Golding ISBN: 9780399501487

*To Kill a Mocking Bird* Harper Lee ISBN: 9780446310789

English 11

UC/CSU Approved

Grade 11

2 semesters 10 credits

Students will investigate the poems, plays, novels, short stories, and essays that were God inspired by American writers. In addition to providing a sound historical background in the development of American Literature, the students will write essays aimed at deepening critical reading and writing skills.

**Texts:** Summer Reading

Students entering 11<sup>th</sup> grade (Not taking AP English)

*One Flew Over the Cuckoo's Nest* by Ken Kesey ISBN: 9780451163967

*The Great Gatsby* by F. Scott Fitzgerald ISBN: 9780743273565

School year

*Elements of Lit Course 5* ISBN: 0-03-068377-7

*The Crucible* by Arthur Miller

*Fahrenheit 451* by Ray Bradbury ISBN: 9780345342966

*The Scarlet Letter* by Nathaniel Hawthorne ISBN: 9780451526083

English 12

UC/CSU Approved

Grade 12

2 semesters 10 credits

English 12 is designed to teach three interrelated elements: core literature, students' experiences, and writing as a process. British Literature will be the primary focus. The course incorporates learning experiences derived from cultural heritage, experiences in confronting important human issues, a strong sense of values, and necessary language and thinking skills acquired through frequent listening, speaking, reading, and writing.

**Texts:** Summer reading

Students entering 12<sup>th</sup> grade (Not taking AP English)

*Wuthering Heights* by Emily Bronte ISBN: 9780451529251

*Grendel* by John Gardner ISBN: 9780679723110

School year

*Elements of Lit Course 6* ISBN: 0-03-038282-3

*Mac Beth* by Shakespeare ISBN: 9780743477109

*1984* by George Orwell ISBN: 9780451524935

AP Literature and Composition (AP)

UC/CSU Approved

Grades 11-12

2 semesters 10 credits

**Prerequisite:** Grade of "B" or better in prior English courses; parent approval; completion of summer reading before the fall semester.

This course is designed to enable qualified students to honor God to the best of their ability on the Advanced Placement examination in English and Literature. This two-semester course (offered in lieu of English 11 or 12) AP English Literature is an accelerated program which teaches the content of an introductory college course. The focus is placed on the writing of various periods and genres. Writing is taught as a tool to convey the student's analysis or interpretation. Students become familiar with the resources of literature: connotation, figurative language, irony, syntax, tone, etc. Numerous evaluative essays are written. Practice for the essay and multiple choice sections of the AP Literature and Composition

exam is a part of this course. The AP English exam given in the spring is mandatory. Students who do not take the AP exam will not receive the weighted grade point. This course is offered every second year, alternating with AP English Language and Composition.

**Texts:** Summer Reading

*King Lear* by Shakespeare  
*Gulliver's Travels* by Jonathan Swift ISBN: 1593080573  
*Pride and Prejudice* by Jane Austen  
*Wuthering Heights* by Emilie Bronte  
*Heart of Darkness* by Robert Conrad  
*The Great Gatsby* by F. Scott Fitzgerald

School year

*The Bedford Introduction to Literature: Reading, Thinking, Writing* ISBN: 0312452829  
*Crime and Punishment*  
*Inferno from The Divine Comedy of Dante Alighieri*  
*A Portrait of the Artist as a Young Man*  
*Sound and the Fury*  
*Hamlet*  
*Vocabulary Workshop Level H*  
*Keys for Writers*

AP English Language and Composition (AP)

UC/CSU Approved

Grades 11-12

2 semesters 10 credits

**Prerequisite:** Grade of "B" or better in previous English with teacher recommendation, completion of summer assignment, and parent approval.

Strong control of standard English including grammar, sentence structure, and basic essay format. The primary goal of the class is to develop each student's ability as a critical reader and analytical writer. Weekly written assignments and extensive reading are important components of this class and require consistent effort from each student. Students are expected to leave this class with the writing ability of a college sophomore. All students are expected to take the AP

exam. This course is offered every second year, alternating with AP English Literature and Composition.

**Texts:** *Pilgrim at Tinker Creek* by Annie Dillard ISBN: 9780061233326

*Self-Reliance and Other Essays* by Ralph Waldo Emerson ISBN: 9780486277905

*The Metamorphosis* by Franz Kafka ISBN: 9781599866147

*Their Eyes Were Watching God* by Zora Neale Hurston ISBN: 9780060838676

School year

*Everyday Use: Rhetoric at Work in Reading and Writing* ISBN: 9780321093257

*Everything's an Argument: With Readings* ISBN: 9780312447502

*The Norton Sampler* ISBN: 0-393-97882-6

*Keys for Writers* ISBN: 618437851

*Sadler-Oxford Vocabulary Workshop* ISBN: 0-8215-7612-7

*Speeches That Changed the World* ISBN: 9781905204021

## Fine Arts

The Arts have been man's greatest means of expression since creation. The Bible has many references to music, speech, drama and art. Psalm 33 says that we should perform skillfully with great enthusiasm. These skills come from training and rehearsal. HCS believes that God given abilities should be developed to the highest degree, in order that God will be glorified. To ensure that all students develop an appreciation and understanding of the Fine Arts, one year of study in this Department is required for graduation. However, many students are involved with the different offerings for all four years of high school. The Fine Arts program is divided into two sections: Visual Arts and Performing Arts.

**Credit Requirements:**

Students must earn at least 10 credits for graduation in fine arts.

**Recommended College Prep Courses**

*Fulfills "J" requirement for UC*

*Art*

*Art II*

*Choir HS*

*Drama I*

Drama I UC/CSU Approved Grades 9-12

2 semesters 10 credits (may be repeated for credit)

Drama I is the introductory course of the drama program. During the first semester of the class, students explore several aspects of theater arts including acting, directing and technical theater. The second semester will focus on a live performance that will involve both the acting and technical aspects of theater.

**Text:** *The Stage and the School* ISBN: 0-07-055145-6 (this book to be replaced in 2009-2010)

Adv. Drama Grades 9-12

2 semesters 10 credits (may be repeated for credit)

**Prerequisite:** A grade of "C" or better in Drama I and consent of Instructor

Adv. Drama is a one-year course with hands-on activities. Specialized instruction in method acting and technique is emphasized. Students who are accepted for enrollment will apply the basics learned in Drama I to advance their understanding in improvisation, speech, modern and classical scene studies, monologues, stage presence, dialects, and directing. Elements of play production will be reviewed and elaborated upon. Viewing and critiquing of professional theater is required. Additional work on school productions is also required as an extension of classroom learning.

Choir HS UC/CSU Approved Grades 9-12

2 semesters 10 credits (may be repeated for credit)

**Prerequisite:** Audition.

This choir is an advanced performing ensemble for students who have mastered the basic fundamentals of ensemble singing. The Choir will perform in school, community, and festival programs. Attendance at performances is mandatory. This is a touring choir.

Harvest (Advanced Vocal Ensemble) Grades 9-12

5 Credits per semester (may be repeated for credit)

**Prerequisite:** Membership in Choir, audition and consent of instructor.

Harvest is the most advanced of the small choral ensemble at Hillcrest Christian High School. It performs challenging pieces from various genre written for vocal ensembles. This class concentrates on vocal improvisation, acapella singing, performing with a combo, and music theory that is essential to all musicians. Solo singing and singing in a small group will be part of the course. Although Harvest is not a "core academic class", it is considered as a fine arts elective. Harvest will perform in festivals, workshops and various performance venues.

Art UC/CSU Approved Grades 9-12

2 semesters 10 credits.

This is a sequence-based beginning course that explores the fundamentals of drawing and the elements of art (line, value, texture, shape, and form). Students will create in a variety of media while they learn about linear perspective, value, and creating three-dimensional forms on a two-dimensional surface. They will participate in the creation of realistic, representational, and some non-objective works of art from observation and imagination. Instruction will include use of pencil, ink and colored pencils. A survey of artists and their works will be periodically explored.

## Art II

UC/CSU Approved

Grades 9-12

2 semesters 10 credits (may be repeated for credit)

**Prerequisite:** Successful completion of Art 1.

This instruction emphasizes color theory, organization, composition, and manipulation of the elements of art through two-dimensional design experiences. Instruction will also include the use of various media (pencil, colored pencil, ink and paint) while working with subject matter realistically and abstractly, culminating in a final painting project. A survey of artists and their works will be periodically explored.

## **Foreign Language**

HCS believes that Christians have been mandated by Jesus to go into all the world and teach the gospel. To fulfill the great commission, it is necessary to be able to communicate with people of other lands and cultures. This involves reading, writing and speaking in real-world situations. Meaningful communication is the main goal and the major activity evident in these courses. Basic writing skills, such as spelling, punctuation, and sentence structure are stressed and constantly reinforced. Active listening skills and oral participation are required. Students will also learn to understand and appreciate other cultures. The UC and CSU systems require that two years of a single foreign language be taken during high school; however, the UC system recommends a minimum of three years be taken.

## **Credit Requirements:**

Two years of a single foreign language are required for UC/CSU entrance. Three years are recommended.

## **Recommended College Prep Courses:**

*Fulfills the "e" for UC and CSU*

Spanish 1, Spanish 2, Spanish 3

## Spanish I

UC/CSU Approved

Grades 9-12

2 semesters 10 credits

**Prerequisite:** Grade of "C" or higher in 8<sup>th</sup> grade English for entering 9<sup>th</sup> grade students.

Students will develop skills in listening, speaking, reading, and writing in the target language, as well as acquiring the ability to function in the world where Spanish is spoken. Course work will consist of grammatical exercises, dialogues, skits, and short compositions; students will use memorized materials in simple statement or question form (e.g., greetings, numbers, time, dates, weather, activities, preferences, feelings, possessions, money, past times). Use of Spanish for instruction will increase progressively throughout the year.

**Texts:** *Expresate!* ISBN: 0-03-067678-7

*Cuadro de vocabulario y gramatica student edition level 1*

ISBN: 0-03-074496-2

## Spanish II

UC/CSU Approved

Grades 9-12

2 semesters 10 credits

**Prerequisite:** Grade of "C" or higher in Spanish I

This course continues building the understanding, speaking, reading and writing of Spanish. It places emphasis on oral language development, grammar, and written language. Course work will include reading short stories, newspaper/magazine articles, and regular textbook assignments. Focus will be placed on expanding use of verb tenses. By the end of the year, students should be writing short, simple compositions, and should be able to participate in short conversations. The course will be conducted primarily in Spanish.

**Texts:** *Expresate!* ISBN: 0-03-071271-8

*Cuadro de vocabulario y gramatica student edition Level 2*

ISBN: 9780030744976

## Spanish III

UC/CSU Approved

Grades 11-12

2 semesters 10 credits

**Prerequisite:** Grade of "C" or higher in Spanish II

This course builds on the foundation of the first two years of vocabulary, elementary conversation, and grammar. All verb tenses will be studied. Students will expand their skills, and practice listening and reading skills which may allow them to experience success in a future class. Creative skills of dialogue speaking and writing will be practiced progressively for independent use outside the classroom. The course will be conducted in Spanish. UC approved

**Texts:** *Expresate!* ISBN: 0-03-071272-0

*Cuadro de vocabulario y gramatica student edition level 3* ISBN: 9780030744983

### **Mathematics**

Students at HCS are instructed in the skills of mathematics in order to train their minds to use logical, sequential thought processes, to provide opportunities to acquire advanced mathematical skills and therefore to function as responsible members of society. Using these gifts they will serve and glorify the Lord. Students will display competence in knowledge, comprehension and application. Thirty semester units of mathematics are required for graduation. Algebra I or its equivalent must be completed for graduation. The University of California and California State University systems both require a minimum of three years of college preparatory math courses--specifically, Algebra I, Geometry and Algebra II -- for entrance. A fourth year of college prep math is recommended. Entering 9<sup>th</sup> graders are placed in math classes on the basis of their eighth grade teacher's recommendation, standardized test scores, and performance in the 8<sup>th</sup> grade math class.

### **Graduation Requirements:**

Students must earn a minimum of 30 credits for high school graduation.

### **Recommended College Prep Courses**

*Fulfills "c" requirement for UC and CSU*

Algebra 1 (1 year)

OR Algebra A (1<sup>st</sup> year of 2 year program), Algebra B (2<sup>nd</sup> year of 2 year program)

Geometry

Algebra II

Pre-Calculus

AP Calculus

### Accounting

Grades 11-12

2 semesters 10 credits Elective course

The goal of this course is to develop an understanding of the principles of accounting and the ability to use modern accounting methods. The course includes an introduction to financial statements such as balance sheet and income statement; use of checkbook and bank records; use of special journals and ledgers; analysis of records; payroll records; and adjustments such as those for taxes, depreciation, interest, and uncollectible accounts. Work is done both manually and on the computer using accounting software.

**Texts:** Century 21 Accounting

ISBN: 9780538447058

### Algebra A

Grades 9-11

2 semesters 10 credits

### **Prerequisites:**

This course is designed for those students requiring some strengthening of their fundamental arithmetic skills and a slower pace in acquiring a solid foundation in Algebra. Together, Algebra A and Algebra B will satisfy the graduation requirement. This course meets one-half of the Algebra 1 graduation requirement.

**Text:** *Algebra 1* ISBN: 0131339966

### Algebra B

Grades 9-12

2 semesters 10 credits

**Prerequisites:** Must have passed both semesters of Algebra A.

This course is the second year of the two-year Algebra sequence described in Algebra A above. Together, Algebra A and Algebra B will satisfy the graduation requirement. This course meets one-half of the Algebra 1 graduation requirement.

**Text:** *Algebra B: Algebra 1 Volume 2* ISBN: 0-07-822849-2

Algebra I UC/CSU Approved Grades 9-12  
2 semesters 10 credits

**Prerequisite:** A grade of “C” or higher in previous math course

This course is designed to give a basic background in the techniques and topics of classical algebra. In this class, students will receive a foundation in fundamental operations with real numbers and variables. Students will begin to use formal proofs and will study topics including solutions of equations and inequalities, graphing linear functions, working with functional notation, operations with polynomials and verbal problem solving.

**Text:** *Algebra 1* ISBN: 0131339966

Geometry UC/CSU Approved Grades 9-12  
2 semesters 10 credits

**Prerequisite:** A grade of “C” or higher in previous math course.

This course provides an extension of the concept of a formal proof, develops logical thinking, covers the foundations of Euclidean Geometry, and will develop coordinate geometry including the in-depth study of lines.

**Text:** *Geometry* ISBN: 0131339974

Algebra II UC/CSU Approved Grades 9-12  
2 semesters 10 credits

**Prerequisite:** A grade of “C” or higher in previous math course

This course continues the development of linear and quadratic functions from Algebra 1. New topics included are operations with rational polynomial expressions, three-dimensional linear systems, determinants, quadratic theory, study of the complex number system, and basic trigonometry.

**Text:** *Algebra 2* ISBN: 0131339982

Precalculus UC/CSU Approved Grades 10-12  
2 semesters 10 credits

**Prerequisite:** Pass Algebra II with a grade of “C” or higher and/or the recommendation of the previous math teacher.

Pre-Calculus is designed to introduce students to the language and concepts necessary for college level math courses. It is designed to prepare students for the study of calculus, to strengthen their use of mathematical application, and to provide opportunities to apply technology to mathematics. Topics stressed include: relations, functions, graphs, trigonometry, vectors, parametric equations, polar coordinates, complex numbers, exponentials, logarithms, sequences, series, iteration, fractals, statistics, probability, data analysis, and limits. A TI graphics calculator is required.

**Text:** *Pre Calculus Graphical, Numerical, Algebraic* ISBN: 013227650X

Calculus AB AP UC/CSU Approved Grades 11-12  
2 semesters 10 credits

**Prerequisite:** A grade of “C” or higher in Pre-Calculus B and/or the recommendation of the previous math teacher.

This advanced placement course is the equivalent to college level Introductory Calculus. Students study the limits of a function and derivative of polynomial, trigonometric, logarithmic, hyperbolic, and exponential functions. Also included are the techniques of integration and applications to problem solving. The AP Exam in Calculus, given in the spring is mandatory. A TI graphing calculator is required. Students who do not take the AP exam will not receive the weighted grade point for either semester the class is taken.

**Text:** *Calculus: Graphical, Numerical, Algebraic, 3rd Edition* ISBN: 0132014084

### **Physical Education**

God created man with physical as well as mental, spiritual and social needs. In physical education classes, we seek to make a major contribution to the physical well-being of students by fostering an enjoyment of physical activity, providing wholesome alternatives in the use of leisure time, building a solid foundation of motor skills and developing physical capabilities such as strength, flexibility, and cardio-respiratory fitness. Physical education is the study and practice of the science and art of human movement. Through physical education, the student has the opportunity to learn to perform efficiently the motor skills needed in everyday living and in recreational activities. The student can develop and maintain sound physiological functions through vigorous muscular activity. Physical education provides situations for learning to compete as well as to cooperate with others in striving for achievement of common goals. Satisfying and successful experiences in physical education should develop in the individual a desire to regularly participate in activity throughout life.

### **Credit Requirements:**

Students must earn at least 20 credits for graduation.

#### Physical Education

Grades 9-12

2 semesters 10 credits (may be repeated for credit)

This core program includes a solid grounding in the principles of how to develop and maintain physical fitness. Emphasis will be placed on awareness of lifetime fitness and personal fitness goals. Activities will be taught in units and include team sports and individual sports. PE uniform must be purchased. Students who participate in CIF sponsored sports teams may receive Physical Education credit for that participation. Credit is granted for one sport each fall and spring.

### **Science**

Man has always had three desires: to know where he came from, to know how to function effectively, and to know where he is going. Since God created man, he then has a responsibility to know God and His mandates. The science program thus provides students with the opportunity to study the methods of science (science as a process of studying the world), the content of science including physical science and life science, science in personal and social perspectives, history of science, and unifying concepts and processes. Students will achieve scientific literacy by:

- becoming familiar with the natural world and respecting its unity;
- becoming aware of the connectedness of human beings, nature, and technology;
- understanding some of the key concepts and principles of science;
- knowing that science is a human endeavor;
- being able to use scientific knowledge and ways of thinking for personal and social purposes.

### **Graduation Requirements:**

Students must earn a minimum of 20 credits for graduation, which include:

1 year physical science (10 credits)

1 year life science (10 credits)

### **Recommended College Prep Courses**

*Fulfills "d" requirement for UC and CSU*

Biology

Chemistry

Physics

Anatomy and Physiology

#### Anatomy and Physiology

UC/CSU Approved

Grades 11-12

2 semesters 10 credits

**Prerequisite:** Completion of Biology with grade of "C" or higher.

A detailed study of anatomical structures and physiological processes of the human organ systems. Laboratory work investigating physiological processes, as well as dissection of anatomical structures, will be provided.

**Text:** *Anatomy: Holes Essen. Of Human Anatomy* ISBN: 0-07-256038-X

Biology UC/CSU Approved  
2 semesters 10 credits

Grade 10

This class introduces students to a comprehensive curriculum which includes introductory units in biochemistry, microbiology, botany, human biology, genetics, ecology, and the environment. Laboratory investigations are an integral part of the course, and require some mathematical skills in the examination of concepts and lab experiments. Recent advancements in biology, as well as fundamental concepts including physiological and phylogenetic relationships, are studied.

**Texts:** *Biology the Dynamics of Life* ISBN: 78299004

*Biology Reinforcement* ISBN: 1579246478

Chemistry UC/CSU Approved  
2 semesters 10 credits

Grades 11-12

**Prerequisite:** Grade of "C" or higher in Algebra I; concurrent enrollment in Geometry or completion of Geometry with a grade of "C" or higher.

Chemistry is designed to give students a basic understanding of theory, composition and behavior of matter. Emphasis is placed on measurement, the mole concept, atomic structure, and factors influencing chemical reactions. Students will be introduced to and become familiar with laboratory equipment and techniques, and will be expected to emphasize their ability to use critical thinking and problem solving skills. Experiments, demonstrations, and discussions will be employed.

**Text:** *Modern Chemistry* ISBN: 00-305-1122-4

Physics UC/CSU Approved  
2 semesters 10 credits

Grade 12

**Prerequisite:** Grade of "C" or higher in Algebra I and Geometry, concurrent enrollment in Algebra II. This course is a qualitative and quantitative study of the central concepts of physics including mechanics, thermodynamics, waves, sound, light, electricity and magnetism, and modern physics. Emphasis will be placed on mental imagery that relates to things and events that are familiar in the everyday environment. Physics concepts will be studied with the use of demonstrations, laboratory investigations, multimedia presentations, and student projects. Laboratory work will include some computation.

**Texts:** *Physics: Prin & Prob.* ISBN: 0-02-825474-0

*Practicing Physics WkBk* ISBN: 032105153-X

*Alps Active Learning Kit Mechanics* ISBN: 1571821279

## Social Sciences

Social Sciences at HCS is a revelation of the truth of God's Word in the development of the world as it is today. Information that will help the students discover the chronology of events from creation to the student's own existence will be covered. This area of study will help the student overcome anxieties about other cultures, enabling them to use God-given abilities to discern and respond to other people's needs. Studying history from the perspective of God's dealing with the nations will bring students and awareness of where they came from, what they are about and where they are going.

## Credit Requirements:

Students must earn 30 credits for graduation and pass all of the following courses:

World History

U.S. History

Economics (1 semester course)

Government (1 semester course)

**Recommended College Prep Courses:**

*Fulfills "a" requirement for UC and CSU*

World History

U.S. History

AP U.S. History

Government

*Fulfills "g" requirement*

Psychology

Economics

AP Micro Economics

World History

UC/CSU Approved

Grade 9

2 semesters 10 credits

This course covers topics chronologically, beginning with ancient through medieval times, and moves through the Renaissance, French Revolution, Industrial Revolution, the development of democracy, imperialism, 20<sup>th</sup> Century crises, and technological advances. Selected civilizations will be studied from the Western and non-Western worlds, with emphasis on the study of European culture and its significance to the intellectual, political, and social development of the United States. Cultures will be compared in terms of ethical systems, philosophies, laws, languages, literature, arts, and religions, and will emphasize historical events that have had an impact on the development of particular cultures. Basic social science skills and concepts will be emphasized.

**Text:** *World. Hist. & Cul. In Chr.* 5-722-3 (A Beka #)

U.S. History

UC/CSU Approved

Grade 11

2 semesters 10 credits

This course presents the student with the causes and effects of events in American History in a chronological manner. It focuses on the origins and development of American institutions, economy, and society and on the role this nation has played in world affairs. The basic values of the American way of life--individual rights, government by the consent of the governed, and equal opportunity--are presented in an academic manner.

**Text:** *Heritage of Freedom* 3-531-9 (A Beka #)

AP United States History

UC/CSU Approved

Grades 11-12

2 semesters 10 credits

The AP Program in American History is designed to provide students with the analytic skills and factual knowledge necessary to critically discuss the main trends in American History. This two semester course prepares students for the AP US History Exam and also for college courses by challenging them with material equivalent to that used in introductory college courses. It is a survey and workshop course utilizing a textbook including many supplementary readings in the form of documents, essays, or books on special themes. These readings provide the basis of factual evidence. In the classroom, the course develops the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence from the readings clearly in essay format. This course is designed to enable qualified students to achieve to the best of their ability on the AP examination in American History. It is possible for students to earn college credits based on the individual college policy. Students who do not take the AP exam will not receive the weighted grade point for either semester the class is taken.

**Texts:**

Summer

*The American Pageant* by David Kennedy ISBN: 618427327

*A People's History of the United States* by Howard Zinn ISBN: 60838655

OR

*Don't Know Much about History* by Kenneth Davis ISBN: 0064408361

School Year

*Cracking the AP U.S. History Exam* Princeton Review ISBN: 375428518

Government

UC/CSU Approved

Grade 12

1 semester 5 credits

This one semester course of study explores the basic origins, philosophy, functions, and organization of our federal, state, and local governments. Students learn to analyze historical and contemporary political data, separate fact and opinion, identify values and biases, and understand multiple political perspectives. The class is designed to help students intelligently participate in our system of government, as well as to better understand their rights and responsibilities as citizens in a democracy.

**Text:** *U.S. Government: Democracy In Action* ISBN 0-02-822071-4

American Government and Politics AP

UC/CSU Approved

Grade 12

1 semester 5 Credits

Prerequisite: 1) Completion of the AP Application; 2) successful completion of summer assignment  
This course provides a systematic study of the ideas, concepts, principles, traditions, and institutions of American Government. It helps students develop an understanding of the philosophical and historical roots of our contemporary political system. The Constitution and its application to current issues in domestic and world affairs will be stressed. This course is designed to enable qualified students to perform their best on the AP American Government exam. Since this one semester course is offered only in the spring semester, it will require the completion of winter reading assignments. Students who do not take the AP exam will not receive the weighted grade point for either semester the class is taken.

**Texts:**

Summer: *The No Spin Zone* by Bill O'Reilly ISBN: 767908481

*Lies and Lying and the Liars Who Tell Them: A fair and balanced look at the right.* by Al Franken ISBN: 1565117964

School year

*AP Government: American Government.* 10<sup>th</sup> Edition ISBN: 0618562443

*Cracking the US Government and Politics Exam* ISBN: 037542850X

Economics

UC/CSU Approved

Grade 12

1 semester 5 credits

This is a survey course that provides students with an overview of general economic theories and principles using the United States economic system as a model. Students will study, supply and demand, productivity, business organizations, financial institutions.

**Text:** *Econ: Prin. & Practices* ISBN: 0-02-823556-8

AP Microeconomics

UC/CSU Approved

Grade 12

1 semester 5 credits

**Prerequisite:** 1) Completion of the AP Application; 2) Completion of summer (outside) assignment by designated deadline.

AP Microeconomics is a semester long course designed to replicate the introductory microeconomics course taught in a university setting. Students explore economic concepts and their application to problems of public policy. We will look at issues such as inflation, unemployment, and their possible cause and cures. Additionally, we will analyze the role of the government and the Federal Reserve in the economy. Students who do not take the AP exam will not receive the weighted grade point for either semester the class is taken.

**Texts:** *Advanced Placement Economics - 3rd Edition: Microeconomics - Student Activities*

ISBN: 1-56183-568-4

*Cracking The AP Economics Micro and Macro Exams* ISBN: 375765352

Psychology

UC/CSU Approved

Grades 11-12

2 semesters 10 credits (elective course)

Psychology offers a basic introduction to the study of human behavior. It includes a variety of diverse topics in the field, including the study of major theories of personality, the many ways the brain and the body affect human behavior, the way human beings think and reason, the basic principles of learning, a review of major mental and emotional disorders, and a variety of topics in social psychology. Based on scientific knowledge, this course allows students to consider how the field of psychology can illuminate aspects of their own lives and gives them the opportunity to measure their own beliefs and assumptions regarding the nature of human behavior.

**Text:** *Invitation to Psychology 4<sup>th</sup> ed.* ISBN: 0-13-124744-6

## OTHER COURSES

### Health

Grade 9

1 semester 5 credits.

Students will study health issues by examining their life styles, selecting goals for good health and learning how to achieve and maintain optimum health. They will be involved in decision making about wise health practices, learning that all choices carry with them consequences, either good or bad. Behaviors that may prevent illness, accidents, and stress, and that promote wellness, are studied. The students will also study HIV and AIDS, their symptoms, possible treatment, and avoidance behaviors. Students will develop the research and study skills necessary to be successful in high school.

**Text:** *Total Health: Choice for a Winning Lifestyle* ISBN: 0-9-646843-0-6

### Life Skills

Grade 9

1 semester 5 credits

This semester course is designed to help students make the smooth transition to High School. The focus will be on helping students to grow both academically and socially. It includes topics such as time management, goal setting, study skills, and college preparation. The course addresses issues such as successful relationships with friends and family, values clarification, peer pressure, stress management and personal growth. Effective presentation skills are developed and enhanced through a variety of projects.

**Texts:** *7 Habits of Highly Effective Teens* ISBN: 684856093

*7 Habits Workbook* ISBN: 978 07432 50986

### Creative Writing

Grades 9-12

2 semesters 10 credits

This course presents the student with a variety of writing experiences, which are directed to various audiences/purposes and provides the opportunity to examine the process of composing literature, creative compositions. Students will explore writing as artistic expression and work toward building a portfolio of work. Daily writing exercises will include learning to read with a writer's eye, exploring vocabulary, and mastering and breaking the rules of grammar. Students will work in small writing-response groups to share compositions, to offer constructive feedback, and to edit the material.

### Yearbook

Grades 10-12

2 semesters 10 credits (may be repeated for credit)

**Prerequisite:** Advisor's approval.

This class is responsible for designing and producing the annual yearbook. The yearbook staff helps design the cover of the books, the theme, and the features contained inside, including the actual layouts for every page in the yearbook. Since the course incorporates the latest in desktop publishing technology, it also serves as a vocational course. Students serve as editors, writers, photographers, and computer graphics designers. Ability to meet deadlines is a must.

