



Christian Heritage School Upper School Curriculum Guide

2024-2025

575 White Plains Road
Trumbull, CT 06611
203.261.6230
www.ChristianHeritageSchool.org



CHS Upper School Curriculum Guide 2024 -2025

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Mission and Philosophy

Christian Heritage School exists to assist parents in fulfilling their God-given responsibility to teach their children that, "In [Christ] are hid all the treasures of wisdom and knowledge" (Col. 2:3) and to provide its students with an education of spiritual and academic excellence with which to serve God.

Christian Heritage's upper school curriculum offers a balance of liberal arts course offerings based on the core biblical principles of truth, excellence, and virtue. Recognizing each student's unique gifts and interests, CHS endeavors to prepare students for the higher education arena, and, ultimately, to serve God through their professions. The major goals of the upper school curriculum are three-fold:

- To sufficiently prepare students for academic success at the college level through a teaching and learning environment commensurate with a college-preparatory school.
- To facilitate exploration, enrichment, and leadership through co-curricular programs.
- To challenge students to take ownership of their faith in and walk with the Lord, understanding their calling in God's plan.

Academic Integrity

The CHS community holds scholarly pursuit and personal ethics in highest regard, as reflected in God's word, "Whatever you do, work at it with all your heart, as working for the Lord" (Col. 3:23). To this end, we seek to instill a sense of personal integrity in all areas of life by fostering moral and ethical values in a climate of mutual respect. Students are expected to act with integrity as they assume responsibility for their education by submitting work that is truly and wholly their own. In doing so, students learn from their mistakes and have the opportunity to grow and master their subjects of study. Furthermore, students gain self-confidence and independence as they enter college, and ultimately, their vocational calling.

Planning a Program of Studies

Every student should pursue a program that will rigorously challenge their abilities. This program of studies contains academic policies, a list of graduation requirements, and course descriptions with prerequisites. Students must take a minimum of 6.5 credits in grades 9 and 10, and 6.0 credits for grades 11 and 12. All students must complete a minimum of 25 credits. The academic counselor will meet with students in the spring to assist each student in planning a program of study, fulfilling graduation requirements, and setting goals for his or her future plans.

Course Selection Process

Course selection for the next school year will begin in early March. At that time, students in grades 9-12 will be required to complete Course Requests for their specific grade level through their individual Family Portal account. All courses available to students are listed there. Please refer to this Program of Studies as a guide when choosing courses, especially noting the requirements for the Honors/AP/Dual Credit courses.

Admissions Process

Students applying for admission to upper school will be required to take a placement test in World Language and Mathematics.

NCAA Eligibility Reference Guide

For more information, visit the NCAA Eligibility Center website at www.ncaa.org

Division I	Division II
Core Course Requirement (16 courses)	Core Course Requirement (16 courses)
4 years of English	3 years of English
3 years of Mathematics (Algebra 1 or higher)	2 years of Mathematics (Algebra 1 or higher)
2 years of natural/physical science (1 year of lab science if offered by HS)	2 years of natural/physical science (1 year of lab science if offered by HS)
1 year of additional English, Math or natural/physical science	3 years of additional English, Math or natural/ physical science
2 years of social science	2 years of social science
4 years of additional courses from any area above, foreign language or comparative religion/philosophy	4 years of additional courses from any area above, foreign language or comparative religion/philosophy

Honors, Advanced Placement, Dual Credit

Honors courses are designed to be taught at an accelerated pace with a more comprehensive score of content.

Advanced Placement courses follow the syllabi prescribed by the College Board. The content of these courses is commensurate with a freshman college-level course and therefore intended for students who demonstrate the ability and desire for a rigorous academic course.

Dual Credit courses are any college courses taught by CHS faculty who are also adjunct professors within our partnerships with the University of Connecticut, Seton Hall University, and Syracuse University. Students have the option of earning both high school and college credits simultaneously.

Kingsmen Scholars Program

The Kingsmen Scholars Program is a voluntary academic program for grades 9 - 12 that encourages students to go deeper in their learning and understanding in specific courses of the student's choosing. Please read all of the requirements for this program [here](#).

GPA Scale

Grade	%	Standard	Honors	AP,DC
A+	97-100	4.34	4.67	5.34
A	93-96	4.00	4.34	5.00
A-	90-92	3.67	4.00	4.67
B+	87-89	3.34	3.67	4.34
B	83-86	3.00	3.34	4.00
B-	80-82	2.67	3.00	3.67
C+	77-79	2.34	2.67	3.34
C	73-76	2.00	2.34	3.00
C-	70-72	1.67	2.00	2.67
D+	67-69	1.34	1.34	1.34
D	63-66	1.00	1.00	1.00
D-	60-62	0.67	0.67	0.67
F	0-59	0.00	0.00	0.00

High School Graduation Requirements

All students take courses according to the appropriate grade level and are required to follow the proper sequence for coursework. Courses taken prior to grade 9 do not count towards graduation but may be used for placement.

<u>Subject</u>	
Bible	4.5 credits (Apologetics required)
English	4.0 credits
Mathematics	4.0 credits
Science	3.0 credits (Biology, Chemistry, Physics required)
Social Studies	3.5 credits (Gov/AP Gov required)
World Language	2.0 credits (2 consecutive levels of same language in high school)
PE/Health	0.5 credit
Electives:	3.5 credits required for graduation (minimum .5 from Visual & Performing Arts)
Total credits required for graduation	25 credits

To graduate with a **Christian Heritage School diploma**, students must meet all graduation requirements noted above.

Advanced Placement (AP) / Dual Credit (DC)

Advanced Placement (AP) and dual credit (DC) courses are rigorous academic classes available to students who are interested in the opportunity to pursue challenging college-level classes while still in high school. Through these college-level courses and exams, students can earn college credit and/or advanced standing when applying to colleges.

English

Seton Hall American Lit I, II
AP English Language & Composition
Syracuse Univ. Presentational Speaking
Seton Hall Introduction to Creative Writing I
UConn Problems of Philosophy

History

UConn US History I, II
AP US Government & Politics

Mathematics

AP Calculus AB

Science

UConn Physics I, II
UConn Biology I, II

World Language

UConn Spanish Composition

Visual & Performing Arts

UConn Music Fundamentals I, II

UConn Early College Experience (UConn ECE) provides academically motivated students with the opportunity to take university courses while in high school. These challenging courses allow students to preview college work, build confidence in their readiness for college, and earn college credits that provide both an academic and a financial head start on a college degree and other postsecondary opportunities. UConn ECE instructors are high school teachers certified by the University. UConn ECE instructors foster independent learning, creativity, and critical thinking—all important for success in college and careers. Christian Heritage School offers UConn ECE courses in Physics, Biology, US History, Philosophy, Spanish, and Music Fundamentals. To support rigorous learning, University of Connecticut academic resources, including library and online classroom access, are available to all UConn ECE students.

Most of the advanced courses (Honors, Dual Credit, Advanced Placement) at Christian Heritage School have prerequisites, so be sure to check the course descriptions in this guide for all the details. AP courses are listed in this Program of Studies and on a student's transcript with the "AP" designation. Collegeboard offers AP exams each May to students who have enrolled in Advanced Placement course work. Students expecting to earn college credit must take the AP exam at the end of the course. **There is a fee for each exam taken.** For more information please visit: <https://apstudent.collegeboard.org/exploreap>

Community Service

Grades 9-12

Christian Heritage School is intentional about targeting the final portion of its mission statement: "... to provide an education of spiritual and academic excellence with which to serve God" in part through the implementation of vibrant community service opportunities in the high school. While we do not have a specific hourly requirement for graduation, service opportunities, and the promotion of the heart of serving, is interwoven into our curriculum in high school. Students will have the opportunity to serve their campus through various needs that arise over the year, serve their community through local non-profit organizations, as well as serve their world through international trips that foster a heart of service over their time in high school. It is our prayer that CHS graduates would continue to serve and make a difference in this world over the course of their lives, wherever God calls them

BIBLE

It is our conviction that “a spiritual education of excellence” must aim at the target defined by our Lord Jesus in Mark 12:30-31. That is, to “Love the Lord your God with all your heart and with all your soul and with all your mind and with all your strength” and to “Love your neighbor as yourself.” It is, therefore, the mission of the Bible Department to enable students to build a biblical worldview by equipping them to discover and apply biblical truth to life in a way that encourages love for God and service to others.

Bible 6

Full year, 1 credit

Grade 6

This course is a New Testament study of the later ministry, death, and resurrection of Jesus. The study includes the beginning of the church and Paul's calling and ministry to be the church's apostle to the Gentiles, preaching the message that we are saved by God's grace offered in Jesus Christ. The course follows Paul through his three missionary journeys. Students gain a deeper understanding of the New Testament scriptures by studying the historical context in which it was written.

Bible 7

Full year, 1 credit

Grade 7

This introduction to the Old Testament gives students both a functional and a practical understanding of the Old Testament. The Old Testament is essential in giving students the tools to appreciate the Bible as one complete book. Students focus on God's character and actions in the story of His people. Students see the crucial nature of the Old Testament in the meta-narrative of God's redemptive history and its relevance in their lives today.

Bible 8

Full year, 1 credit

Grade 8

This is an introduction to the New Testament that focuses on the culmination and climax of the story of God's kingdom which began in the Old Testament. In the New Testament God reveals the salvation that he has accomplished and offers to us through his only Son, Jesus Christ. This course focuses on New Testament Survey, the Parables of Jesus, Missions, Church History, and Preaching. Students recognize how God continued to work in the lives of His people throughout the history of Israel and the church and how He is present in our lives today.

Bible 9

Full year, 1 credit *Grade*

9

This course is designed to be a survey of the Old Testament. This course will guide the student into a richer knowledge of the Old Testament as the beginning of God's story of salvation which culminates in the New Testament with the coming of Christ, and his perfect accomplishment of redemption. Students are challenged to enter into God's story, living out the Gospel as a person on a mission with God in every

Bible 10

Full year, 1 credit

Grade 10

Bible 10 is a full year course designed to be an in-depth survey of the New Testament. The New Testament is the culmination and climax of the story of God's kingdom which began in the Old Testament. In the New Testament God reveals the salvation that he has accomplished and offers to us through his only Son, Jesus Christ. In this course students will learn how to effectively read, study, and apply the scriptures of the New Testament. In pursuit of this purpose, we will cover the Gospels, Acts, the Epistles, and Revelation, all of which chronicle the events from the coming of Christ to his glorious return at the end of the age.

Bible 11**1 semester, .5 credit***Grade 11*

This is a half-year course that provides opportunities for students to explore and engage in God's mission as the foundation for the story of the Bible as the lens through which we all relate to others cross-culturally, as the centerpiece of history, and as the driving force for living "missionally" in whatever context we find ourselves. Throughout the class, students are challenged to reconsider how they live their day-to-day experience with God and others. This is not an experience that begins and ends with salvation; it is a journey that lasts a lifetime.

Life Calling**1 semester, .5 credit***Grade 11*

Life Calling is a half-year course that assists students in discovering the concept of life calling in a holistic and faith-based setting by focusing on one's God-given design as a basis for this calling. Students will evaluate their foundational values, unique design and personal mission and discover how to integrate this into their life and leadership.

Bible 12**Full year, 1 credit***Grade 12*

Bible Twelve is a full-year course designed to be an in-depth study of Christian worldview and ethics. To this end, this class will focus on identifying cultural worldviews that are antithetical to Christianity, understanding the all-encompassing nature of the Christian worldview, and connecting what we believe to how we live our day-to-day lives. We will also take time to explore how worldview has shaped the life of the Church in history and consider how this may affect the trajectory of God's people in the future.

Christian Apologetics**1 semester, .5 credit***Grade 12*

If you believe, could you explain why you believe? If you don't believe, are you sure you have all the facts? Do you want to know more about the evidence for the truth of Christianity? Would you like to be able to explain why Christianity is the one true world religion? Would you like to be prepared to answer the questions that inevitably come up when you share your faith and be a better witness for Christ? Would you like to be able to defend the miracles and resurrection of Jesus? Would you like to learn about other religions and worldviews? If so, this course is for you. Not convinced about Christianity? This course will allow you to explore the rational basis for Christianity and to form your own conclusions. Topics will include the historical, logical, archeological, prophetic, biblical, and scientific evidence for Christianity, as well as the evidential basis for other world religions and worldviews. The format of the course will include discussion, presentations, and print and video media. Regular group activities are planned and will primarily be completed in class.

ENGLISH

The goal of the English Department at Christian Heritage School is to encourage students to think deeply. Students should be able to read and evaluate the written word and other media clearly and logically. They should be able to express their thoughts in clear writing and speech. They should be encouraged to be creative and thoughtful Christians with high standards for everything they do.

Courses available to Freshmen	Courses available to Sophomores	Courses available to Juniors	Courses available to Seniors
Literature 9 Literature 9 H	Literature 10 Literature 10 H	American Literature Seton Hall Univ. Am. Lit. I Seton Hall Univ. Am. Lit. II UConn Problems of Philosophy	British Literature 12 – I British Literature 12 – II Syracuse Univ. Presentational Speaking UConn Problems of Philosophy Seton Hall Creative Writing* AP Language & Comp*

**course may not be offered 2024-2025*

Literature and Composition 6

Full year, 1 credit

Grade 6

This course provides a study of several novels to reinforce reading comprehension and higher-order thinking skills, with emphasis given to the literary elements of each novel. Vocabulary in the context of the individual novel is developed. Novels may be assigned from the following list: *From the Mixed-Up Files of Mrs. Basil E. Frankweiler*, *A Single Shard* and *A Long Walk to Water*. In grammar, students will learn the seven parts of speech and the building blocks of sentences. In writing, students will learn process writing, the traits of good writing, and age-appropriate conventions of written expression. The research paper is also introduced in this course.

Literature and Composition 7

Full year, 1 credit

Grade 7

This course is designed to help students develop a better understanding and command of the English language. Writing is emphasized, with emphasis given to process writing. Students write a variety of essays, narrative writings, and a research paper. Vocabulary comes from the literature read and emphasis is placed on developing oral expression. Grammar instruction focuses on the parts of speech and sentence parts, as well as mechanics and editing skills. In literature, students study short stories, drama, nonfiction, poetry, and the two novels *A Wrinkle in Time* and *The Wednesday Wars*.

Literature and Composition 8

Full year, 1 credit

Grade 8

This course provides the student with a study of grammar, writing, and literature. Students build on their basic understanding of grammar by learning about verb tenses, subject-verb agreement, pronoun usage, punctuation, and capitalization. Writing is a focus as the students will write and journal often, as well as pursue improvement in sentence, paragraph, and essay structure. In literature, students study short stories, nonfiction essays, poetry, and novels such as *The Hiding Place* and *To Kill a Mockingbird*.

Literature and Composition 9

Full year, 1 credit

Grade 9

This course provides the student with a study of grammar, writing skills, vocabulary, and literature. In grammar, students will review parts of speech, sentence parts, and proper usage rules. In writing, students will produce several critical literary essays, several creative writings, and an in-depth research paper. Literature units involve short stories and poetry, along with the major works *Great Expectations*, *Romeo and Juliet*, and *The Odyssey*. Vocabulary is studied within the context of the literature. The philosophical content of literature is evaluated in the light of God's truth.

H Literature and Composition 9

Full year, 1 credit

Grade 9

This course provides the student with a study of grammar, writing skills, vocabulary, and literature. In grammar, students will review parts of speech, sentence parts, and proper usage rules. In writing, students will produce several critical literary essays, several creative writings, and an in-depth research paper. Literature units involve short stories and poetry, along with the major works *The Pilgrim's Progress*, *Great Expectations*, *Romeo and Juliet*, and *The Odyssey*. Vocabulary is studied within the context of the literature. The philosophical content of literature is evaluated in the light of God's truth. This is a more rigorous course than standard Literature and Composition 9, as it includes additional units, a faster reading pace, more writings, and more work with grammar.

Prerequisites:

A- (90) or better in current English course
Department recommendation

Literature and Composition 10

Full year, 1 credit

Grade 10

This course provides the student with a study of grammar, writing skills, vocabulary, and literature. In grammar, students will review mechanics, proper usage rules, capitalization, and punctuation. In writing, students will produce several critical literary essays, several creative writings, and an in-depth research paper. Literature units involve short stories and major works such as *Julius Caesar*, *A Midsummer Night's Dream*, and *Jane Eyre*. Vocabulary is studied within the context of the literature. The philosophical content of literature is evaluated in the light of God's truth.

H Literature and Composition 10

Full year, 1 credit

Grade 10

This course provides the student with a study of grammar, writing skills, vocabulary, and literature. In grammar, students will review mechanics, proper usage rules, capitalization, and punctuation. In writing, students will produce several critical literary essays, several creative writings, and an in-depth research paper. Literature units involve short stories and major works such as *Julius Caesar*, *A Midsummer Night's Dream*, *Jane Eyre*, and *A Separate Peace*. Vocabulary is studied within the context of the literature. The philosophical content of literature is evaluated in the light of God's truth. This is a more rigorous course than standard Literature and Composition 10, as it includes additional units, a faster reading pace, more writings, and more work with grammar.

Prerequisites:

A- (90) in Standard level or B+ (87) in Honors level
Department recommendation

American Literature 11- I

1 semester, .5 credit

Grade 11

This course provides a survey of American literature from the Colonial Period to Romanticism. The literary works in this course are presented both chronologically and thematically, and the philosophical content of the course is evaluated in the light of God's truth. Major works include *Walden* and *The Scarlet Letter*. Many other anthologized works of poetry and prose will also be read throughout the course. Grammar skills and vocabulary are reinforced. Creative writings and literary research papers are emphasized.

American Literature 11- II

1 semester, .5 credit

Grade 11

This course provides a survey of American literature from Realism to the present. The literary works in this course are presented both chronologically and thematically, and the philosophical content of the course is evaluated in the light of God's truth. Major works include *Beyond the Horizon*, *The Glass Menagerie*, and *The Great Gatsby*. Many other anthologized works of poetry and prose will also be read throughout the course. Grammar skills and vocabulary are reinforced. Creative writings and literary research papers are emphasized.

Seton Hall University American Literature I ◊

Seton Hall University Course ENGL 2103

1 semester, .5 credit

Grade 11

This class provides a survey of American literature from the Colonial Period until 1865. The literary works in this course are presented both chronologically and thematically, and the philosophical content of the course is evaluated in the light of God's truth. Major works read include *Nature*, *Walden*, *The Scarlet Letter*, and *Song of Myself*. Many other anthologized sermons, essays, short stories, and poems will also be read throughout the course. Grammar skills and vocabulary are reinforced. Writings include critical literary essays and an in-depth research term paper. This is a more rigorous course than standard American Literature, as it requires a faster reading pace, more writings, and more comprehensive exams.

Prerequisites:

A- (90) in Standard level or B+ (87) in Honors level

Department recommendation

Score of 540 or better on PSAT Critical Reading

◊ Additional fee for this course

Seton Hall University American Literature II ◊

Seton Hall University Course ENGL 2104

1 Semester, .5 credit

Grade 11

This college level class provides a survey of American literature from 1865 until the present. The literary works in this course are presented both chronologically and thematically, and the philosophical content of the course is evaluated in the light of God's truth. Works read include *Beyond the Horizon*, *The Great Gatsby*, and *The Glass Menagerie*. Many other anthologized essays, short stories, novellas, and poems will also be read throughout the course. Grammar skills and vocabulary are reinforced. Writings include critical literary essays and an in-depth research term paper. This is a more rigorous course than standard American Literature, as it requires a faster reading pace, more writings, and more comprehensive exams.

Prerequisites:

A- (90) in Standard level or B+ (87) in Honors level

Department recommendation

Score of 540 or better on PSAT Critical Reading

British Literature12 - I

1 semester, .5 credit

Grade 12

This course provides a survey of British literature from the Old English Period until the Neoclassical Period. The literary works in this course are presented both chronologically and thematically, and the philosophical content of the course is evaluated in the light of God's truth. Grammar skills and vocabulary are reinforced. Creative writings and literary research papers are emphasized.

British Literature12 - II

1 semester, .5 credit

Grade 12

This course provides a survey of British literature from the Romantic Period until the present. The literary works in this course are presented both chronologically and thematically, and the philosophical content of the course is evaluated in the light of God's truth. Grammar skills and vocabulary are reinforced. Creative writings and literary research papers are emphasized.

UConn Problems of Philosophy◊

UConn Course PHIL 1101

Full year, .5 credit

Grades 11-12 (priority given to 12)

This is an introductory course in philosophy. Students study the principles of logic and reasoning. They will learn about logical fallacies and sample some of what has been written on topics such as the existence of God, the problem of evil, morality, knowledge, being, personhood, and the meaning of life. Readings will include the writings of Plato, David Hume, Thomas Aquinas, Rene Descartes, John Stuart Mill, Gottfried Leibniz, and evangelical theologians of the last two millennia. Students should expect 20-30 pages of reading per week and significant writing assignments. In addition, this course includes viewing and analyzing films in terms of philosophical themes. Students achieving a C (73) or better will earn three college credits from the University of Connecticut.

Prerequisite:

Instructor approval

◊ Additional fee for this course

AP Language and Composition 12

1 Semester, .5 credit

Grade 12

Advanced Placement English Language and Composition is a rigorous reading and writing course meant to be the equivalent of a college-level composition class. It includes a variety of interdisciplinary readings and written responses to those writings. In addition, students study logic and rhetoric and create their own original compositions. Assignments emphasize interpretation, argumentation, reflection, and revision. Students may receive college credits by taking the Collegeboard AP English Language and Composition test at the conclusion of the course.

Prerequisites:

Satisfactory essay and term paper writing in American Literature 11 or Seton Hall American Literature (preference given to those taking the Seton Hall class)

A- (90) in Standard level or B+ (87) in Honors level

Department recommendation

Score of 540 or better on PSAT Critical Reading

Syracuse University Presentational Speaking◇

Syracuse University course CRS 325

1 semester, .5 credit

Grade 12

This course presents the conceptual and practical dimensions of formal presentations in organizational settings. Students examine analysis, adaptation, strategic arrangement, development of ideas, and verbal and non-verbal presentation skills. The course is designed to build a solid understanding of the fundamentals of public presentations, as well as the ability to employ those skills flexibly so that a speaker can adjust selected topics and tactics to specific audiences.

Prerequisites:

Minimum GPA of 3.5

Department approval

Seton Hall University Introduction to Creative Writing◇

Seton Hall University Course ENGL 2511

1 Semester, .5 credit

Grade 12

This course provides an introduction to writing in two genres: poetry and the short story. Through a regimen of reading, class discussions, writing, and critique workshops, students will learn about the craft of creative writing. By the end of the course, students will produce a portfolio of writings—including poems and fictional works—and learn how to submit those works to literary journals.

Prerequisites:

Satisfactory essay and term paper writing in American Literature 11 or Seton Hall American Literature (preference given to those taking the Seton Hall class)

A- (90) in Standard level or B+ (87) in Honors level

Department approval

Score of 540 or better on PSAT Critical Reading

◇ *Additional fee for this course*

MATHEMATICS

The Christian Heritage School statement of mission begins, "In Christ are hid all the treasures of wisdom and knowledge." (Colossians 2:3, KJV) With this in mind, mathematics courses are taught on the assumption that the great God we serve is an orderly God, and that mathematics is one reflection of that order. Scripture also calls us to persevere through challenges and in light of this, the CHS mathematics department believes as good stewards that we should work together with students to develop each student's skills and problem-solving abilities.

Courses available to Freshmen	Courses available to Sophomores	Courses available to Juniors	Courses available to Seniors
Algebra I Geometry H Geometry	Geometry Algebra II H Algebra II	Algebra II Algebra II H Pre-Calculus Pre-Calculus H	Pre-Calculus H Pre-Calculus Statistics Discrete Math 12 AP Calculus AB

Math 6

Full year, 1 credit

Grade 6

In this course, students will begin to explore positive and negative numbers, secure the operations of multiplication and division of whole numbers, fractions and decimals, work with and make connections between, ratios, rates, and percent, develop algebraic thinking skills, solve problems using the coordinate plane, find the areas and volumes of various geometric shapes, and begin to explore data and measures of central tendency.

Math 7

Full year, 1 credit

Grade 7

In this course, students will develop an understanding of proportional relationships and apply them to problem solving; develop an understanding of operations with rational numbers and work with expressions and linear equations; solve problems involving scale drawings and informal geometric constructions, and work with two- and three-dimensional shapes; and draw inferences about populations based on samples.

H Math 7

Full year, 1 credit

Grade 7

In this course, students will develop an understanding of proportional relationships and apply them to problem solving; develop an understanding of operations with rational numbers and work with expression and linear equations; solve problems involving scale drawings and informal geometric constructions, and work with two- and three-dimensional shapes; and draw inferences about populations based on samples. While the content in both 7th grade classes is the same, students in H Math 7 will be exploring problems requiring higher levels of problem-solving skills.

Prerequisite:

Satisfactory completion of Math 6

Department chair approval

Faculty recommendation

Standardized testing scores used for placement

In this course, students will formulate and reason about expressions, solve linear systems of equations, develop an understanding of linear functions and use those functions to describe quantitative relationships and using algebra to analyze geometric figures using distance, angle, similarity and congruence, and apply the Pythagorean Theorem. The algebra explored in this class would be the equivalent of the first half of a traditional full year algebra 1 class. The emphasis being the depth of exploration and mastery of these specific algebraic skills and concepts.

Prerequisite:

Satisfactory completion of Math 7

H Algebra I

Full year, 1 credit

Grade 8

This course covers the fundamental operations and exponentiation of signed numbers, monomials/ polynomials, and formulas. Graphical representation of algebraic concepts is interwoven throughout the course. Students will explore data interpretation and elementary probability; simplify and evaluate algebraic expressions; explore functions, specifically linear, exponential, absolute value and quadratic functions; and solve equations, specifically linear, simple exponential, absolute value, and quadratic equations (using factoring and completion of square) While the content in both Algebra 1 and Honors Algebra 1 classes is the same, students in Honors Algebra 1 will be exploring problems requiring higher levels of problem solving skills. (A graphing calculator is required, TI-84 is preferred)

Prerequisites:

Satisfactory completion of Honors Math 7 or Math 7

Department chair approval

Faculty recommendation

Standardized testing scores used for placement

Algebra I

Full year, 1 credit

Grade 9

This course will extend some understandings of concepts and skills developed in Math 8—Algebra and then proceed into an in-depth exploration of functions, linear, exponential, absolute value, and quadratic functions; and solve equations, specifically linear, simple exponential, absolute value, and quadratic equations (using factoring and completion of square) (A graphing calculator is required, TI-84 is preferred)

Prerequisite:

Satisfactory completion of Math 8.

Geometry

Full year, 1 credit

Grades 9-10

This course covers plane and solid geometry. An emphasis is placed on the further development of problem solving skills through the use of proofs and logical reasoning. Topics covered are parallel and perpendicular lines, congruent triangles, relationships within triangles, polygons and quadrilaterals, similarity, right triangles and trigonometry, transformations, area, surface area and volume, circles, and probability.

Prerequisites:

Satisfactory completion of Algebra I

H Geometry

Full year, 1 credit

Grade 9

This course covers plane and solid geometry. An emphasis is placed on the further development of problem solving skills through the use of proofs and logical reasoning. Topics covered are parallel and perpendicular lines, congruent triangles, relationships within triangles, polygons and quadrilaterals, similarity, right triangles and trigonometry, transformations, area, surface area and volume, circles, and probability. While the content in both Geometry and Honors Geometry classes is the same, students in Honors Geometry will be exploring problems requiring higher levels of problem-solving skills.

Prerequisites:

Satisfactory completion of Honors Algebra I or Algebra I (Department chair approval)

Algebra II

Full year, 1 credit

Grades 10-11

This course begins with a brief review of topics from Algebra I. The graphical/visual representation of algebraic concepts is emphasized throughout the course. Topics covered include data analysis curves of best fit, linear functions and inequalities, systems of two and three variables, matrices (emphasis on use to solve 3x3 systems of equations), series and sequences, complex and imaginary numbers, quadratic functions, variation, roots and radicals, polynomial functions, radical functions and equations, inverse relations and functions, rational functions, exponential functions, and logarithmic functions. (Instruction is done using a TI-84 graphing calculator.)

Prerequisites:

Satisfactory completion of Geometry and Algebra I

H Algebra II

Full year, 1 credit

Grades 10-11

This course begins with a brief review of topics from Algebra I. The graphical/visual representation of algebraic concepts is emphasized throughout the course. Topics covered include data analysis curves of best fit, linear functions and inequalities, systems of two and three variables, matrices (emphasis on use to solve 3x3 systems of equations), series and sequences, complex and imaginary numbers, quadratic functions, variation, roots and radicals, polynomial functions, radical functions and equations, inverse relations and functions, rational functions, exponential functions, and logarithmic functions. While the content in both Algebra II and Honors Algebra II classes is the same, students in Honors Algebra II will be exploring problems requiring higher levels of problem-solving skills. (Instruction is done using a TI-84 graphing calculator.)

Prerequisites:

Satisfactory completion of Honors Geometry and Honors Algebra I (Department chair approval) Satisfactory completion of Geometry and Algebra I (Department chair approval)

Pre-Calculus

Full year, 1 credit

Grades 11-12

This course is a more comprehensive study of the functions that are introduced in Algebra II. Linear, quadratic, polynomial, exponential, logarithmic, and rational functions are all studied in detail. Applications of each of the categories of functions are interwoven throughout the course. The second half of the course includes a comprehensive study of the six basic trigonometric functions. Topics covered include angle measurement, graphs of trigonometric functions, inverse trigonometric functions, applications of trigonometric functions, fundamental identities, trigonometric equations, laws of sines and cosines, vectors, roots of complex numbers, conic sections, and series and sequences. Parametric equations are also introduced. A graphing calculator is required for this course. (Instruction is done using a TI-84 graphing calculator).

Prerequisites:

Satisfactory completion of Algebra II or Honors Algebra 2

H Pre-Calculus

Full year, 1 credit

Grades 11-12

This course is a more comprehensive study of the functions that are introduced in Algebra II. Linear, quadratic, polynomial, exponential, logarithmic, and rational functions are all studied in detail. Applications of each of the categories of functions are interwoven throughout the course. The second half of the course includes a comprehensive study of the six basic trigonometric functions. Topics covered include angle measurement, graphs of trigonometric functions, inverse trigonometric functions, applications of trigonometric functions, fundamental identities, trigonometric equations, laws of sines and cosines, vectors, roots of complex numbers, conic sections, and series and sequences. While the content in both Precalculus and Honors Pre-Calculus classes is the same, students in Honors Pre-Calculus will be exploring problems requiring higher levels of problem solving skills. Parametric equations are also introduced. A graphing calculator is required for this course. (TI-84 graphing calculator is preferred).

Prerequisites:

Satisfactory completion of Algebra II or H Algebra 2

(Department chair approval)

Statistics Discrete Math 12

Full year, 1 credit

Grade 12

This course deals with discrete events and finite processes. Topics include social choice (voting, apportionment, fair division, and game theory), management science (circuits, graphs, trees, and critical paths), matrices, and logic. Discrete Mathematics uses the techniques of elementary mathematics to deal with unusual and intriguing applications and is recommended for students of all levels of experience and ability. The goals of this course are to introduce students to the mathematics of finite sets and to develop an understanding of information processing and problem solving in practical situations. This course also includes a unit on elementary statistics. Topics for this unit include mean, median, mode variability, standard deviation, standard scores, grouping data, histograms and frequency distributions, elementary probability theory, and binomial probabilities.

Prerequisites:

Algebra II taken either previously or concurrently.

Grade 12

AP® Calculus AB studies limits, derivatives, and integrals and covers all topics listed in the *AP® Calculus Course Description* published by the College Board. In addition to these topics the course also covers L'hospital's rule (0/0 and ∞/∞ cases), integration by parts, and integration by partial fractions. Parts and partial fractions are covered after the AP test is given. Emphasis is placed not only on the numeric solutions to problems but also in explaining in written words the significance of the solutions. This is especially true in application problems. An AP approved graphing calculator is required for this course (TI-84 preferred). While it is assumed that students have a working knowledge of the graphing calculator, time is taken during class to ensure that all students are able to find max/min points, zeros, intersection points, numeric derivatives, and integrals.

Prerequisites:

Satisfactory completion of Pre-Calculus or H Pre-Calculus

59 or better on math portion of PSAT or

590 or better on math portion of SAT (exam must be taken prior to course selection)

SCIENCE

The Science Department at Christian Heritage School seeks to provide a solid foundation of scientific knowledge, thus equipping students with a means for interpreting and understanding the purposed intelligent design of the world around them. The Science Department offers college preparatory science classes at varying levels to accommodate students who pursue science, allied health, medicine, engineering, or technology careers, as well as those who pursue careers in other disciplines. At all levels, it is the goal of the Science Department to spark the interest and expand the understanding of the students through demonstrations, hands-on laboratory work, simulations, and multimedia presentations.

Courses available to Freshmen	Courses available to Sophomores	Courses available to Juniors	Courses available to Seniors
Biology Biology H	Chemistry H Chemistry	Physics UConn General Physics I UConn General Physics II*	UConn Biology I UConn Biology II Astronomy Human Anatomy & Physiology

*Course not offered 2024-2025

Science 6

Full year, 1 credit

This course is designed to introduce students to life science and earth science with a biblical worldview. Topics covered include living things, plants, populations of ecosystems, oceanography, weather, and climate. Students investigate the world in which we live through hands-on experiments. They are trained to ask and answer questions as well as design simple experiments on their own.

Science 7

Full year, 1 credit

This course provides an introduction to the principles of chemistry and broadens the student's understanding of life science. Our Creator is revealed as we learn of the order and intelligent design evidenced in creation. In this course, we learn about atoms, states of matter, bonding, chemical reactions, as well as cell structure, cell processes, genetics, and human body systems. Students develop critical thinking skills through lab activities and experimentation.

Science 8

Full year, 1 credit

This course broadens the scientific knowledge of students by providing an introduction to physics. Students learn about motion, forces, energy, gravity, work, simple machines, and engineering design. The purposed intelligent design of the universe is revealed through the study of the natural laws that govern it. Additional topics include the universe, space, galaxies, the solar system, plate tectonics, earthquakes, and volcanoes. Students solve problems using the scientific method. They make their own discoveries using laboratory investigation and experimentation. They also learn to draw conclusions from data and measurements. Students have the opportunity to conduct independent research as they complete a science fair project during the first semester.

STEM Grade 8

Biology

Full year, 1 credit

Grade 9

Biology is the study of life. In this course, students learn about the three main domains of life, all while discovering how God has designed all creation. Basic topics include biochemistry, cells, cellular respiration, cell division, genetics, protein synthesis, bacteria and viruses, photosynthesis, animals, and the human body systems. Students perform inquiry-driven labs as well as write formal lab reports.

H Biology

Full year, 1 credit

Grade 9

Biology is the study of life. In this course students learn about the three main domains of life, all while discovering how God has designed all creation. Basic topics include biochemistry, cells, cellular respiration, cell division, genetics, protein synthesis, bacteria and viruses, photosynthesis, animals, and the human body systems. Students take a much deeper dive into special topics such as biochemistry, genetics, and gel electrophoresis. Students perform inquiry-driven labs as well as write formal lab reports.

Prerequisites:

A- (90) or better in Grade 8 Science

Chemistry

Full year, 1 credit

Grade 10

Chemistry is the study of how matter interacts and changes. Although chemistry involves things we cannot see, students perform extensive laboratory investigations to connect scientific theory with real phenomena. Topics encountered in this course include scientific measurement, atomic theory, the periodic table, bonding, naming chemicals, the properties of matter, the states of matter, gas laws, mixtures and solutions, chemical reactions, energy, the mole, stoichiometry, acids and bases, and nuclear chemistry. The study of chemistry gives deeper insight into the intricate, organized design of nature and ultimately shows us the wisdom and power of our Creator.

H Chemistry

Full year, 1 credit

Grade 10

Chemistry is the study of how matter interacts and changes. Although chemistry involves things we cannot see, students perform extensive laboratory investigations to connect scientific theory with real phenomena. Topics encountered in this course include scientific measurement, atomic theory, the periodic table, bonding, naming chemicals, the properties of matter the states of matter, gas laws, mixtures and solutions, chemical reactions, energy, the mole, stoichiometry, acids and bases, and nuclear chemistry, polymers, equilibrium, and oxidation-reduction. This honors course differs from the regular Chemistry course in that it is more math intensive and moves at a faster pace. The study of chemistry gives deeper insight into the intricate, organized design of nature and ultimately shows us the wisdom and power of our Creator.

Prerequisites:

B (83) or better in H Biology or A-(90) or better in Biology

B (83) or better in current honors mathematics course or A-(90) or better in current mathematics course

Physics

Full year, 1 credit

Grade 11

Physics is a laboratory course which offers elementary theory and application for the college preparatory student. Topics encountered in this course include motion in one and two dimensions, Newton's laws of motion, work, energy, momentum and collisions, rotational motion, gravity, torque, fluid mechanics, simple harmonic motion, and thermodynamics. Considerable skill in algebra, trigonometry, and problem-solving is required for satisfactory completion of this course. The study of physics gives deeper insight into the intricate, organized design of the world around us, explains everyday phenomena that we might take for granted, and ultimately shows us the wisdom and power of our Creator.

Prerequisite:

Satisfactory completion of Algebra I

UConn General Physics I ♦

UConn Courses PHYS 1201Q

Full year, 1.0 credit

Grades 11 & 12

UConn Physics is for students who have a career interest in science, engineering, or medicine, or for highly motivated students seeking a challenge. This course is offered through the University of Connecticut Early College Experience Program. It mirrors Physics 1201Q taught at UConn as first year physics. Students receiving a grade of C (73) or higher during each semester may obtain a transcript from UConn with 4 credits. Students majoring in engineering or science are likely required to take calculus-based physics even if they receive credit for this course. Topics covered include motion in one and two dimensions, Newton's laws of motion, work and energy, momentum and collisions, rotational motion, gravity, torque, solids, fluid mechanics, thermodynamics, simple harmonic motion and sound.

Prerequisites:

B+ (87) or better in Honors Chemistry or A (93) or better in Chemistry

B+ (87) or better in current honors mathematics course or A (93) or better in current mathematics course

UConn General Physics II ♦ *(not offered 2024-2025)*

UConn Courses PHYS 1202Q

1 Semester, 0.75 credit

Grades 11 & 12

UConn Physics is for students who have a career interest in science, engineering, or medicine, or for highly motivated students seeking a challenge. This course is offered through the University of Connecticut Early College Experience Program. It mirrors Physics 1202Q taught at UConn as first year physics. Students receiving a grade of C (73) or higher during each semester may obtain a transcript from UConn with 4 credits. Students majoring in engineering or science are likely required to take calculus-based physics even if they receive credit for this course. Topics covered include electric fields, magnetic fields, electricity and circuits, light, mirrors and lenses, wave optics, relativity, and nuclear physics.

Prerequisites:

B+ (87) or better in Honors Chemistry or A (93) or better in Chemistry

B+ (87) or better in current honors mathematics course or A (93) or better in current mathematics course

♦ Additional fee for this course

UConn Principles of Biology I ◊

UConn Courses BIOL 1107

1 Semester, .75 credit

Grade 12

These courses follow UConn's syllabus. Subjects include biochemistry, cells, cellular respiration, DNA and protein synthesis, cell cycle, mitosis, meiosis, genetics, and human physiology. This is a lab course and includes labs such as cell study, ELISA assay to test for the presence of disease, enzyme lab, and fetal pig dissection. This class requires self-study. Students receiving a grade of C or higher during the course may obtain a transcript from the University of Connecticut with 4 credits.

Prerequisites:

Completion of Chemistry and Physics with grades of B (83) or better
B+ (87) or better in Honors Biology or A- (90) or better in Biology

UConn Principles of Biology II ◊

UConn Courses BIOL 1108

1 Semester, .75 credit

Grade 12

UConn Early College Experience (UConn ECE) provides academically motivated students with the opportunity to take university courses while in high school. These challenging courses allow students to preview college work, build confidence in their readiness for college, and earn college credits that provide both an academic and a financial head start on a college degree and other postsecondary opportunities. UConn ECE instructors are high school teachers certified by the University. UConn ECE instructors foster independent learning, creativity, and critical thinking—all important for success in college and careers. Christian Heritage School offers UConn ECE Biology to support rigorous learning. University of Connecticut academic resources, including library and online classroom access, are available to all UConn ECE students.

Prerequisites:

Completion of Chemistry and Physics with grades of B (83) or better
B+ (87) or better in Honors Biology or A- (90) or better in Biology

◊ *Additional fee for this course*

Astronomy

Full year, 0.5 credit

Grade 12

This science elective will introduce the elements, structure, and operation of the universe. Special attention will be paid to the Earth system and how it functions. Throughout this study, the reality and presence of the designing hand of God will be revealed. The modules of this elective will include:

- The History of Astronomy
- Introduction to Universe
- Astronomical Instruments (telescopes, probes, and robots)
- The Solar System, Inner Planets, Outer Planets
- Life Cycle of Stars
- Black Holes, Galaxies, Exoplanets, and Other Stellar Bodies
- Astrobiology (the search for extraterrestrial life and the requirements for life beyond Earth)

Prerequisites:

Completion of Biology, Chemistry, and Physics

Human Anatomy and Physiology

Full year, 0.5 credit

Grade 12

This course details the structure and focuses on the function of major body systems, nutrition, and personal health. Students also spent time investigating various disorders that affect the body systems and understand on a molecular level how things function. This course is recommended for students interested in learning more about the structure and functioning of their own bodies.

Prerequisites:

Completion of Biology, Chemistry, and Physics

C (73) or better in Honor Chemistry or B (83) or better in Chemistry

HISTORY - SOCIAL STUDIES

The aim of the History-Social Studies Department at CHS is ultimately to instill and cultivate a God-centered view of history and social studies. Because the basis for this understanding is found in the Bible, we therefore strive in all courses to derive and apply biblical principles of history within a framework of a biblical worldview. We believe that this approach establishes and enhances objectivity and scholarship. Instead of making man the measure of all things, we endeavor to build a foundation for historical interpretation, analysis, evaluation, etc., upon the unchanging truth of God’s Word. Our goal is for students to gain a comprehensive knowledge of world regions and geography, world history, and American history and government and concurrently equip them with tools that enable them to think and discern as Christians in an increasingly secular and non Christian age. In the pursuit of these goals, it is our earnest desire to help students learn to “take captive every thought to make it obedient to Christ” (II Cor. 10:5), and bring all the glory to the One who is “the King eternal, immortal, invisible, the only God...” (I Tim. 1:17).

Courses available to Freshmen	Courses available to Sophomores	Courses available to Juniors	Courses available to Seniors
World Civilization I World Civilization I H	World Civilization II World Civilization II H	U. S. History UConn U. S. History To 1877 UConn U. S. History Since 1877	American Government AP Government & Politics Amer. Government is required for graduation

World Regional Studies I

Full year, 1 credit

Grade 6

World Regional Studies is a two-year course for Grades 6 and 7. Students learn the basics of physical geography, including identifying major landforms and how they affect populations. Grade 6 studies the geography, history, and cultures of Asia, Africa, and Oceania. Students practice critical thinking, explore region-specific primary sources, and learn and practice research and writing skills.

World Regional Studies II

Full year, 1 credit

Grade 7

World Regional Studies II is the second year of a two-year course for grades 6 and 7. Students continue to learn the basics of physical geography, including identifying major landforms and how they affect populations. Grade 7 studies the geography, history, and cultures of Europe, North and South America and Africa. Students practice critical thinking, explore region-specific primary sources, and learn and practice research and writing skills.

American History

Full year, 1 credit

Grade 8

American History 8 is an introduction to United States history. The course covers the period from early explorers/pre-colonial America through the second World War. Special emphasis is placed on the American Revolution, the forming of the Constitution, and the Civil War. Students learn the biblical principles that undergird the Declaration of Independence, the Constitution, and our form of government. Students learn to appreciate their rich heritage, and, in the process, the goal is that they will grow in a love for their country.

World Civilization I

Full year, 1 credit

Grade 9

World Civilization I is the first year of a two-year course for grades 9 and 10. The areas of study are the ancient civilizations of the Near East and Egypt, classical Greece and Rome, Eastern civilizations (India, China, Japan), African kingdoms, the Middle Ages in Europe, and the Renaissance. The course also includes a study of the role of geography, religion, and culture in the various regions and periods covered. The goal is to conduct all study within a biblical framework to lay a foundation for a proper interpretation and a true understanding of this subject, and to prepare students for World Civilization II.

H World Civilization I

Full year, 1 credit

Grade 9

Honors World Civilization I is an honors level survey into the religious, cultural, political, and economic developments from the ancient Near East through the Renaissance period. While affirming and demonstrating the revealed hand of God in the historical record, this course emphasizes those elements which have provided the most thread for the quilt of Western civilization. As an honors level course, the required reading and writing assignments will be more rigorous, more in-depth and involve greater analysis than the non-honors course.

Prerequisites:

A- (90) or better in current or most recent history course

B (85) or better in current or most recent English course

Department recommendation based on performance in American History (grade 8)

World Civilization II

Full year, 1 credit

Grade 10

World Civilization II is the second year of a two-year course for grades 9 and 10. It begins with the Protestant Reformation and continues to the Cold War era. The course focuses on political, social, and economic themes and movements of the various periods and regions that are studied. Particular attention is given to the rise of modern Western Europe and its influence throughout the world.

H World Civilization II

Full year, 1 credit

Grade 10

Honors World Civilization II is an in-depth survey into the religious, cultural, political, and economic developments from the Protestant Reformation through modernity. While affirming and demonstrating the revealed hand of God in the historical record, this course emphasizes those elements which have provided the most thread for the quilt of Western Civilization. As an honors level course, the required reading and writing assignments will be more rigorous, more in-depth and involve greater analysis than the non-honors course.

Prerequisites:

B (83) or better in Honors World Civilization I

Department recommendation

For those not in Honors World Civilization I

A- (90) or better in current or most recent History course

B (85) or better in current or most recent English course or B- (82) or better in honors-level English

Department recommendation based on performance in World Civilization I

United States History

Full year, 1 credit

Grade 11

United States History is a survey of our nation from the time of exploration and colonization to the period of America in transition in the Twentieth Century. The course is approached in a chronological fashion interwoven with political, social, and economic themes and concepts. An integral component of this study is to interpret and evaluate the themes and movements of American history in the light of the principles of Scripture and to cultivate godly knowledge, wisdom, and discernment in the process. The aim is also to provide a firm foundation for students to have an accurate understanding and appreciation of their nation's history.

UConn United States History to 1877 ◊

UConn Course 1501

1 Semester, .5 credit

Grade 11

UConn US History to 1877 is an introductory college-level course which provides students with a detailed factual knowledge of all facets of American History from exploration/colonization to 1877. The main purpose is to provide the student with a detailed critical and analytical survey of the United States and to produce a student who develops and ultimately obtains active collegiate level study, writing, and reading skills. The final goal is to prepare students for the UConn US History exam and subsequent UConn credit.

Prerequisites:

B (86) or better in Honors World Civilization II AND department recommendation

For those not in Honors World Civilization II:

Department recommendation based on performance in World Civilization I and/or II A- (90) or better in current or most recent History course.

B (86) or better in current or most recent English course or B- (82) or better in honors level English

UConn United States History Since 1877 ◊

UConn Course 1502

1 Semester, .5 credit

Grade 11

UConn US History Since 1877 is an introductory college-level course which provides students with a detailed factual knowledge of all facets of American History from 1877 to the present. The main purpose is to provide the student with a detailed critical and analytical survey of the United States and to produce a student who develops and ultimately obtains active collegiate level study, writing, and reading skills. The final goal is to prepare students for the UConn US History exam and subsequent UConn credit.

Prerequisites:

B (86) or better in Honors World Civilization II AND department recommendation

For those not in Honors World Civilization II:

Department recommendation based on performance in World Civilization I and/or II A- (90) or better in current or most recent History course

B (86) or better in current or most recent English course or B- (82) or better in honors level English

American Government

1 semester, .5 credit

Grade 12

American Government is a course which includes an examination of the foundations and principles of government, an overview of the United States Constitution, understanding the function and role of political parties, understanding the electoral process, and study of the executive, legislative, and judicial branches of the government. In order to properly interpret and understand the structure, function, and activities of our government, study is conducted within a biblical framework. Students are also challenged to become active and effective citizens of the United States.

Prerequisite:

Satisfactory completion of United States History

AP U.S. Government & Politics

1 semester, .5 credit

Grade 12

Honors AP American Government is an introductory college course which provides students with an analytical perspective on government and politics within the United States. The course focuses on constitutional government (both in theory and in practice), political behavior, political parties, special interest groups, mass media, public policy, and issues related to civil rights. The intensive reading and writing requirements of this course develop the skills necessary for students to arrive at conclusions on the basis of informed research and to present that research in an organized and persuasive essay format. Students will also be challenged to become active and effective citizens of the United States.

Prerequisites:

B (86) or better in UConn U.S. History AND department recommendation

For those not in UConn U.S. History:

B (86) or better in current or most recent English course

A- (90) or better in current or most recent History course

Department chair approval

◇ *Additional fee for this course*

WORLD LANGUAGES

The CHS World Languages Department exists to assist students in communicating in a foreign language so that they are better equipped to fulfill their God-given responsibility to be ambassadors for Christ (2 Corinthians 19b-20a), and to provide vibrant and interactive learning communities that integrate language learning with cultural awareness and appreciation in order to foster celebration of diversity. World language courses emphasize listening, reading, writing, speaking, and culture. Our goal is to develop in students the ability to use language for real life purposes in culturally appropriate ways.

Students must complete two years of consecutive courses in the same language. Placement in courses takes place at time of admission.

Courses available to Freshmen	Courses available to Sophomores	Courses available to Juniors	Courses available to Seniors
Spanish I B - US Spanish II Spanish II H Oaks Christian School Online Language◇	Spanish II H Spanish II Spanish III Spanish III H	Spanish III H Spanish III Spanish IV H* UConn Spanish Comp	Spanish IV H* UConn Spanish Comp

**Course may not be offered every year*

Spanish Grade 6

Full year, 0.5 credit

Grade 6

The goal of this course is to introduce the student to the language and culture. The course includes basic vocabulary, cultural awareness, and grammar learned indirectly. Emphasis is on developing listening and speaking skills, and an enthusiasm for language study.

Spanish I A

Full year, 1 credit

Grade 7

Spanish 1A introduces the Spanish language and culture. The course begins with basic conversations and progressively builds upon them. The course develops listening, reading, writing, grammar, and cultural awareness skills. Special emphasis is placed upon correct pronunciation so that the students have a good basis for developing further conversational skills. Students also learn simple Bible verses in Spanish.

Spanish I B - MS (Gr. 8)/ Spanish 1B - US (Gr. 9)

Full year, 1 credit

Grades 8-9

Spanish 1B continues from Spanish 1A. The course continues to practice basic conversations and build upon them. The course develops listening, reading, writing, grammar, and cultural awareness skills. Special emphasis is placed upon correct pronunciation so that the students have a good basis for developing further conversational skills. Students continue to learn simple Bible verses in Spanish.

Spanish II

Full year, 1 credit

Grades 9-10

This course reviews basic speaking, listening, reading, writing, and cultural awareness skills and introduces intermediate ones. Vocabulary and grammar are learned in context with emphasis on building conversational skills. Students continue to memorize key Bible verses in Spanish.

Prerequisite:

Satisfactory completion of Spanish IB

H Spanish II

Full year, 1 credit

Grades 9-10

This honors course is designed to prepare students to continue to H Spanish III. The pace is much faster than in Spanish II. This course reviews grammar, pronunciation, speaking, reading, and writing skills and it introduces advanced skills in each of these areas. Additional cultural awareness is emphasized. Reading selections include authentic literature. Students memorize longer Bible verses in Spanish. The majority of this course is taught in Spanish. Students are expected to begin conversing in Spanish.

Prerequisites:

A- (90) or better in Spanish I

Department recommendation

Spanish III

Full year, 1 credit

Grades 10-11

This course reviews grammar, speaking, reading and writing skills and it introduces intermediate skills in each of these areas. Additional cultural awareness is emphasized. Reading selections begin to include authentic literature from the Spanish-speaking world. A large emphasis is placed upon developing conversational skills. Students memorize longer Bible verses in Spanish. The majority of this course is taught in Spanish.

Prerequisite:

Satisfactory completion of Spanish II

H Spanish III

Full year, 1 credit

Grades 10-11

This honors course is designed to prepare students to continue on to UConn Spanish. The pace is much faster than in Spanish 3. This course reviews grammar, pronunciation, speaking, reading and writing skills, and it introduces advanced skills in each of these areas. Additional cultural awareness is emphasized. Reading selections include authentic literature, and a large emphasis is placed upon developing conversational skills. Students memorize longer Bible verses in Spanish. The majority of this course is taught in Spanish. Students are expected to converse primarily in Spanish.

Prerequisites:

A- (90) or better in Spanish II

Department recommendation

H Spanish IV

Full year, 1 credit

Grades 11-12

Course may not be offered 2024-2025

This course is focused on Spanish literature. Students continue to review and improve grammar, pronunciation, speaking, reading, and writing skills at a more advanced level. Students continue to adopt cultural awareness and memorize Bible verses in Spanish with an emphasis on verses to lead a Spanish speaker to faith in Jesus Christ. The majority of the course is taught in Spanish.

Prerequisites:

Satisfactory completion of Spanish III / UConn Spanish
Department chair approval

UConn Spanish Composition◊

Full year, 1 credit

UConn Course 3178

Grades 11-12

This dual credit course provides a thorough review of grammar and methodical practice in composition leading to command of practical idioms and vocabulary. The course uses authentic readings of various genres as models of writing and composition. This course will concentrate on the study of advanced vocabulary and grammatical structures using authentic texts.

Prerequisites:

Satisfactory completion of Spanish III/H Spanish III
Department recommendation

Online Language◊

2024-25- Grade 9 Only

Through a partnership between CHS and Oaks Christian School in California, rising 9th graders may elect to take an online language course that is currently not offered at CHS. Online language courses include American Sign Language, French, Latin, and Chinese. Families who elect this option will incur the cost of the course and will purchase the course through Oaks Christian Online directly. Students will declare their intention to take an online course at the time of registration, and an enrollment deadline will be communicated to families once registration is completed.

Online courses are counted as credit, receive a final, numerical grade, but are not counted in the student's GPA. Students may fill the world language schedule block with either a study hall or other electives that fit into a student's schedule. Students will be expected to work independently on this course as there will be little if any oversight of the student's coursework by CHS teachers. Students who do not pass an online course will be automatically enrolled in CHS Spanish the following year to ensure credit completion.

For questions regarding Oaks Christian School, please contact Mrs. Maree in the Academic Counseling Office or Mr. Jeff Ogne at OCS (jogne@oakschristian.org)

◊ **Course taken at family's expense**

HEALTH & PE

The goal of the Physical Education and Health Department is to inform students how to develop a healthy life style pleasing to God. The students are taught to form desirable habits in the care of their body and to develop respect for their body as the temple of the Holy Spirit. Health classes focus on human anatomy and physiology, mental health, social health, and physical fitness concepts. The classes are taught in a way where the students can apply the concepts of the class to their own lives. Physical Education class is in a safe, non threatening environment where sportsmanship and personal fitness are the most important objectives of the class. Students develop an appropriate level of physical fitness, motor skills, and sports skills throughout the class. Our desire as a department is that our students leave the classroom with an appreciation of the benefits of health education coupled with a desire to adhere to a personal health and fitness plan.

Physical Education and Wellness 6

Full year, .5 credit

Grade 6

Physical Education in grades 6 focuses on the importance of fitness during the transition into adolescence. Emphasis is placed upon cardiovascular fitness as well as flexibility. Team sports are employed to give students enjoyable opportunities to achieve physical fitness. Social, emotional, and physical wellness is also a focus to help students understand and develop a healthy lifestyle

Physical Education and Wellness 7

Full year, .5 credit

Grade 7

Physical Education in grades 7 focuses on the importance of fitness during the transition into adolescence. Emphasis is placed upon cardiovascular fitness as well as flexibility. Team sports are employed to give students enjoyable opportunities to achieve physical fitness and an opportunity to prepare for team sports. Social, emotional, and physical wellness is also a focus to help students understand and develop a healthy lifestyle.

Physical Education and Wellness 8

Full year, .5 credit

Grade 8

Physical Education in grade 8 focuses on the importance of fitness during the transition into adolescence. Emphasis is placed upon cardiovascular fitness as well as flexibility. Team sports are employed to give students enjoyable opportunities to achieve physical fitness and an opportunity to prepare for team sports. Social, emotional, and physical wellness is also a focus to help students understand and develop a healthy lifestyle.

Upper School Wellness

Grade 9-11

Full year, .5 credit

Upper School Wellness focuses on the importance of fitness with an emphasis placed on cardiovascular fitness, strength, and flexibility. Students will also learn about the impact of social, emotional and physical health. This includes developing the ability to set health goals, practice responsible decision-making, and use resistance skills in the following areas of study: stress management, communication, relationships, conflict resolution, proper nutrition, healthful weight management, and personal physical fitness. By junior year, one of following is complete:

- 2 seasons of participation in a club, junior varsity or varsity sport at CHS
- Complete the Wellness Class (PE with Health components) offered to HS students in 10th grade
- 1 season of CHS team participation and 1 season of CHS-approved team participation in a competitive program for a sport not offered at CHS through an HVAL (or equivalent) school as directed through the Athletic Department.

PERFORMING ARTS ELECTIVES

The Christian Heritage School performing arts program is designed to cultivate, encourage, and develop the creative abilities of all students. Because we are committed to excellence, students are challenged individually and corporately to present their best creative effort, as coached by their instructors. The study of the arts allows students to nurture God-given gifts, faithfully using these gifts for His glory. Students will be required to have .5 credit of Arts (Visual and/or Performing) for graduation.

Courses available to Freshmen	Courses available to Sophomores	Courses available to Juniors	Courses available to Seniors
Concert Choir Symphonic Band Jazz Band Kingsmen Singers Drama*	Concert Choir Symphonic Band Jazz Band Kingsmen Singers Music & Media Tech Drama*	Concert Choir Symphonic Band Jazz Band Kingsmen Singers Music & Media Tech Drama*	Concert Choir Symphonic Band Jazz Band Kingsmen Singers Music & Media Tech UConn Music Fundamentals I UConn Music Fundamentals II Drama*

**Course is not offered 2024-2025*

Grade 6 Band

Full year, .5 credit

Sixth Grade Band is a year-long course designed to develop musical independence in all participants. Students accomplish this while being exposed to appropriate works of the wind band repertoire. In band, students are able to demonstrate a progressive ability to perform on an instrument with accuracy and artistry. Finally, band students discover joy and satisfaction in the process of collective music-making that points them to the Creator of all things beautiful. No prior instrument experience is required.

Grade 6 Chorus

Full year, .5 credit

The purpose of this course is to expose students to many styles of music and to develop their individual singing voices. Students will develop fundamental skills in vocal production and choral reading techniques as they are exposed to various choral works. This class will help sixth graders make the transition to middle school chorus successfully. Emphasis on rehearsal and concert etiquette as a performer helps the young musician to grow as a valued member of a choral ensemble.

Middle School Band

Full year, .5 credit

Grades 7-8

Middle School Band is a year-long course designed to expose middle school students to appropriate major works of the wind band repertoire while developing musical intellect, skill, and expression in an ensemble setting. In band, students are able to demonstrate a progressive ability to perform on an instrument with accuracy and artistry. Finally, band students discover joy and satisfaction in the process of collective music making that points them to the Creator of all things beautiful. No prior instrument experience is required.

Middle School Chorus

Full year, .5 credit

Grades 7-8

The purpose of this course is to expose students to many styles of music and to develop their individual singing voices. Students will develop fundamental skills in vocal production and choral reading techniques as they are exposed to various choral works. Emphasis on rehearsal and concert etiquette as a performer helps the young musician to grow as a valued member of a choral ensemble. An important objective in this course is to help students sing and perform music in three voice parts: soprano, alto and baritone.

Jazz Band

Full year, .5 credit

Grades 8-12

Jazz Band is a year-long after-school course designed to expose students to works of the jazz and other popular music genres while developing musical creativity and technical skill in an ensemble setting. Special emphasis is placed on instrumental improvisation - a skill to be cultivated for playing jazz music.

Prerequisite

Auditions are required. Wind and percussion instruments must also be a

Prerequisite

Auditions are required. All students must be members of the Concert Choir.

Concert Choir

Full year, .5 credit

Grades 9-12

The purpose of the Concert Choir is to provide students with musical ensemble experiences within a large choral ensemble setting. The content will include, but not be limited to, enabling students to develop fundamental skills in characteristic vocal production, choral techniques, exposure to various four-part, SATB choral works, reading and interpretation of octavo and concert etiquette both as a performer and attendee. The study of vocal singing encourages each student to grow as both a musician and as a responsible and valued member of a choral ensemble.

Prerequisite

Prior vocal music experience is recommended.

Symphonic Band

Full year, .5 credit

Grades 9-12

Symphonic Band is a year-long course designed to expose students to appropriate major works of the wind band repertoire while developing musical intellect, skill, and expression in an ensemble setting. In band, students are able to demonstrate a progressive ability to perform on an instrument with accuracy and artistry. Finally, band students discover joy and satisfaction in the process of collective music-making that points them to the Creator of all things beautiful.

Prerequisite

Prior music performance experience on a band instrument is recommended

Kingsmen Singers

Full year, .5 credit

Grades 9-12

Kingsmen Singers, the CHS a cappella Chamber Choir is a year-long before-school course designed to enhance students' vocal music experience by providing an opportunity for interested musicians to sing in a small group setting. The literature covered in this choir includes many genres of vocal music, from renaissance to contemporary styles. The goal is to expose students to many styles of choral singing and to discover the uses each has in today's world.

Music and Media Technology

Full year, .5 credit

Grades 10-12

The goal of this course is to provide students with an opportunity to learn how to create, record, and produce all kinds of music in a lab setting. Music and Media Technology students accomplish this using an array of audio software applications and equipment like Sound Trap, Ableton, Garageband, Audacity, MIDI keyboards and recording interfaces. Students create computer-based drum beat patterns, bass lines, chord progressions and melodies, while cultivating personal listening skills. This course is a great opportunity for all students who love to listen to music and play any instrument in any capacity; no prior music performance skills are required. Enrichment learning opportunities incorporate other media applications into class projects (i.e., photo and video work combined with music). Other learning extensions include work in a “live” setting with sound and technology equipment (CHS events like chapels, concerts and plays).

UConn Music Fundamentals & Ear Training I ◇

UConn Course MUSI 1011

1 Semester, .5 credit

Grade 12

UConn Music Fundamentals 1 is a one semester course designed for students who want a deeper understanding of how music works in the Western world. (At UCONN, this course is a first semester course required of all music minors, but open to all interested students.) Course content includes written work in music theory, notation and form. Aural skills (ear training and sight singing) and basic keyboard skills are also addressed. The primary objective is to enhance music literacy for all students enrolled. It is suggested that all students enrolled in this course have prior experience as a vocalist or instrumentalist.

UConn Music Fundamentals & Ear Training II ◇

UConn Course MUSI 1012

1 Semester, .5 credit

Grade 12

UConn Music Fundamentals II is a one semester course designed for students who want a deeper understanding of how music works in the Western world. (At UCONN, this course is a second semester course required of all music minors, but open to all interested students.) Course content includes written work in music theory, notation and form. Aural skills (ear training and sight singing) and basic keyboard skills are also addressed. The primary objective is to enhance music literacy for all students enrolled. It is suggested that all students enrolled in this course have prior experience as a vocalist or instrumentalist.

Prerequisite:

Satisfactory completion of UConn Music Fundamentals & Ear Training I

◇ *Additional fee for this course*

VISUAL ARTS ELECTIVES

The Christian Heritage School visual arts program is designed to cultivate, encourage, and develop the creative abilities of students. Because we are committed to excellence, students are challenged individually and corporately to present their best creative effort, as coached by their instructors. The study of the arts allows students to nurture God-given gifts, faithfully using these gifts for His glory.

Courses available To Freshmen	Courses available To Sophomores	Courses available To Juniors	Courses available To Seniors
Drawing* 2D: Design Painting Printmaking Digital Photography	Drawing* 2-D: Design Painting Printmaking Digital Photography	Drawing* 2-D: Design Painting Printmaking Art H Digital Photography	Drawing* 2-D: Design Painting Printmaking Art H Digital Photography

**Drawing will not be offered during the 2024-2025 academic year.*

Art 6

1 semester, .25 credit

Grade 6

This class provides students with a formal introduction to the principles of art and elements of design. Every project is centered around a specific artist and style of art. Students achieve technical skills in various art media such as drawing, painting, printmaking, and sculpting.

Art 7

1 semester, .25 credit

Grade 7

This class provides students with a formal introduction to the principles of art and elements of design. Every project is centered around a specific artist and style of art. Students achieve technical skills in various art media such as drawing, painting, printmaking, and sculpting.

Art 8

1 semester, .25 credit

Grade 8

This class provides students with a formal introduction to the principles of art and elements of design. Every project is centered around a specific artist and style of art. Students achieve technical skills in various art media such as drawing, painting, printmaking, and sculpting.

Painting

1 semester, .5 credit

Grades 9-12

Painting is a studio course that focuses on aesthetic awareness, problem solving, and developing observational and technical skills in painting. This course will cover the fundamentals of mark-making, value, and line, with a major emphasis on art history and reflective analysis of works created by master artists and peers. Students will develop technical skills in various painting media such as acrylic, watercolor, and ink.

Drawing*

1 semester, .5 credit

Grades 9-12

Drawing is a studio course that focuses on aesthetic awareness, problem solving, and developing observational and technical skills in drawing. This course will cover the fundamentals of mark-making, value, and line, with a major emphasis on art history and reflective analysis of works created by master artists and peers. Students will develop technical skills in various drawing media such as graphite, charcoal, colored pencil, marker, pastel, and ink.

**Drawing will not offered 2024-2025*

2-D: Design

Full year, .5 credit

Grades 9-12

Two-Dimensional Design (2D) is a studio course exploring the formal elements and principles of visual design. Each project is centered around a specific element of art or principle of design. This course places a major emphasis on problem solving and the historical and cultural context in which works of art are produced. Students will develop technical skills in various art media such as drawing, painting, printmaking, and sculpting.

Printmaking

Full year, .5 credit

Grades 9-12

Printmaking is a studio course that introduces a range of printmaking methods including relief, intaglio, stencil, and monoprint. Printmaking is varied, repeatable, and tactile, with images printed as unique works, as multiples, or as variations, using an array of processes. Concepts of drawing, design, color, layering, mark, and space are emphasized. Students will build on process, experiment with print media, and think creatively and critically.

H Art

Full year, .5 credit

Grades 11-12

Honors Art is an advanced studio course designed for self-motivated students who are willing to push themselves beyond the limits of conventional art. Through teacher-directed exercises, students will be encouraged to come up with inventive solutions to artistic challenges. In this course, the elements of art and principles of design, creative inquiry of formal and conceptual issues, unique content, and quality are emphasized. Students will master various media, techniques, and subjects. This course will result in a portfolio that can be used for college admissions if so desired.

Prerequisite Required:

2 years of High School art courses at CHS, or instructor approval

Digital Photography

Full year, .5 credit

Grades 9-12

This course is designed to introduce students to the fundamentals of digital photography, including camera operation, composition, lighting, and editing. Students will explore various genres of photography, including portrait, landscape, and still life. Students will learn the technical aspects of digital photography such as ISO, shutter speed, aperture, white balance, and depth of field, as well as the artistic aspects of composition, lighting, and storytelling.

GENERAL ELECTIVES

Courses available to Freshmen	Courses available to Sophomores	Courses available to Juniors	Courses available to Seniors
Yearbook High School Coding with Python 1,2 Eng/3D Printing I	Yearbook Introduction to Business Leadership Cohort High School Coding with Python 1, 2 Eng/3D Printing I	Yearbook Introduction to Business Leadership Cohort High School Coding with Python 1, 2 Eng/3D Printing I, II	Yearbook Senior Seminar Introduction to Business Leadership Cohort High School Coding with Python 1, 2 Eng/3D Printing I, II

THRIVE!

Full year, .125 credit

Grade 6

The course is designed to assist sixth graders with the transition to Middle School by providing a consistent check-in point where schedules, upcoming academic deadlines, and general school activities are announced and reviewed. Students are provided with structure, strategies and accountability to develop their executive functioning skills. Students will work through the new technology they're using. They participate in Social-Emotional Learning lessons with the school counselor. A writing lab program is taught, preparing students for upper school level academic writing.

Introduction to Engineering

Full year, .125 credit

Grade 6

This class will introduce the student to the engineering design process, computer-aided design (CAD), and the fabrication of objects using 3-D printers. Additional projects will include building and testing CO2 drag racers, building electric circuits, and other projects as time permits. In high school, students have the opportunity to take a more advanced elective class delving deeper and further exploring these and other topics.

Introduction to Coding with Python

Full year, .5 credit

Grade 7

The students will learn to code using Python. The course is entirely browser-based, including an Integrated Development Environment (IDE) that students use to create and run their programs. Using the IDE, students will learn coding by creating shapes; they will write their code and watch their drawings appear and eventually move on the screen as they advance through the course.

High School Coding with Python 1

1st Semester, .5 credit

Grade 9-12

This class does not require any prior programming experience. This class is predicated on the notion that learning about programming and computer science should be fun and engaging. We utilize graphical problems in this course—they are visually engaging, allow for multiple correct solutions, and provide visual cues when a solution goes awry, making debugging easier.

The course is entirely browser-based, including an Integrated Development Environment (IDE) that you use to create, run your programs, and an auto grader that provides hints for fixing code. This section of Python will cover the basics and is a prerequisite to High School Coding with Python 2.

High School Coding with Python 2

2nd Semester, .5 credit

Grade 9-12

This class builds on the skills learned in High School Coding with Python 1. This class is predicated on the notion that learning about programming and computer science should be fun and engaging. We utilize graphical problems in this course—they are visually engaging, allow for multiple correct solutions, and provide visual cues when a solution goes awry, making debugging easier.

The course is entirely browser-based, including an Integrated Development Environment (IDE) that you use to create, run your programs, and an auto grader that provides hints for fixing code.

Prerequisite:

High School Coding with Python 1

Yearbook

Full year, .5 credit

Grades 9-12

The Yearbook course at Christian Heritage is designed to develop students' skills in print media production. Students learn basic principles of production and develop skills including writing copy, captions, and head lines; digital photography; working with a publishing program, and other technological tools for media production. The Yearbook course is designed to support students' development as writers, photographers, editors, independent users of technology, and as responsible contributing members of the Christian Heritage community.

Entrepreneurial Business ◇

Full year, .5 credit

Houghton College Course BADM 201

Grades 10-12

This is a study of communication theory and principles as applied to business writing, oral communication and data reporting. Students will learn to prepare professional business presentations, utilizing and coordinating these three major areas of business communication. Concepts including pitching ideas, basic business theory, personal finance, and public speaking are taught, but this is a course where the application of theory to real business situations is the focus. Students will also have the opportunity to register for additional coursework via Houghton College for college credit.

◇ Additional fee for this course.

Engineering Design with 3D Printing I (ED/3D Printing I)

Full year, .5 credit

Grades 9 - 12

This course will introduce students to the engineering design process from setting a goal, designing creative and practical solutions, planning, building and experimenting with prototypes, and finalizing the design. Students will learn to use Tinkercad, a 3D solids modeling program to develop designs and 3D slicing software which prepares the design for 3D printing. Mid-year, the focus of this course will transition to working with basic electronics, training on flight simulators, building CO2 racers, and designing powered paper airplanes. Assessments will be based upon the completion of projects. In addition to the required projects, students will have the opportunity to work on projects of their own choosing.

Prerequisites:

Priority given to upperclassmen

Engineering Design with 3D Printing II (ED/3D Printing II)

Full year, .5 credit

Grades 11 - 12

Students who have completed ED/3D Printing I may continue their work in two ways:

- Serve as a teacher aide helping with ED/3D I
- Engage in advanced projects related to the ED/3D I content.
- A combination of the two options above

Prerequisites:

Completion of ED/3D Printing I

Instructor Approval

Leadership

Full year, .5 credit

Grades 10-12

This course is open to 10th-12th grade students who have been accepted into the Leadership Cohort or elected as a Student Government Officer (President, Vice-President, Activities Coordinators, or Chaplains). The course seeks to empower students to grow as Christian leaders and use their gifts to influence our school culture in positive and practical ways.

The key components of the “Leadership” class/program are:

- Summer Leadership Retreat (August 12-14) - led by Chappy P (\$100 fee for this retreat)
- Monthly leadership dinners - led by John Naehner
- Bi-monthly morning work meetings (preparing for upcoming activities/events) - led by Student Government Officers
- Bi-monthly discipleship lunches - in small groups with a faculty mentor
- Running and supporting various school events (athletics, community service, arts)

Summer Seminar Internship Program

Summer, .5 credit

Rising grades 11 - 12

Summer Seminar is a several weeks long internship program where students enter the workplace (of their choosing) through research in their *Life Calling* class. Through a variety of projects and assessments, students gain valuable “real world” experience as they go into the college application and career selection process. Students will be visited at their internships over the summer by CHS administrators, will be given advice and training prior to starting their internship, and will be able to put their education into practice off campus, in the workforce. Priority given to rising seniors at registration. Spots are limited.

NOTES