



Eastbrook Academy High School Course Catalogue: 2014-2015

Eastbrook Academy seeks to prepare its students for college, for life, and, most importantly, for the glory of God. Our continuing goal is to refine our scope and sequence in all disciplines for the future success of our classical, Christian community. The following notes list and explain some of our recent changes to the high school curriculum applicable to the 2014-2015 academic year.

English – Students who need extra practice in grammar and writing, as indicated by the Eastbrook Academy entrance test and/or the recommendation of a previous English teacher, will be required to take *Foundations of Language & Composition* during the fall semester.

Math – Beginning with the class of 2017, students will follow one of two math tracks. Because algebra is the foundation of all subsequent mathematics, students may only enroll in *Geometry* as freshmen if they have passed *Algebra I* with a “B” or above and have passed a qualifying exam. Every Eastbrook Academy student must take and pass *Pre-calculus* before graduating.

Rhetoric – In accordance with Eastbrook Academy’s desire to produce well-rounded students who can think, read, write, listen, and speak well, sophomores will now be required to take .5 credits of Rhetoric (public speaking).

Worldview –To prepare our students with a strong, Christian worldview that they can be equipped with for life in a multicultural, secular, and postmodern world, we have created four courses that students will take over their four years in Eastbrook Academy’s high school. Students will take 1 credit of Worldview per year of high school. These courses continue to be refined to meet the needs of our students and their families in a changing world. See below for course descriptions.

Course Load – Students are only allowed one study hall per year. Students whose requirements for the year do not fill seven periods must pick up an additional elective. Seniors, at the discretion of the school, may use one period to serve as a Teacher’s Assistant in addition to their study hall time.

Typical Course Schedule by Class for 2014-2015

Rising Seniors:

English:

AP Literature

History:

*U.S. Government & Politics and Foundations
of Economics & Biblical Stewardship*

Fine Arts:

Choir, Band, Art Studio, or Yearbook

Foreign Languages:

Spanish IV, Spanish V, or Mandarin IV

Math:

Pre-calculus, Intro to Calculus, or AP Calculus

Science:

*Astronomy, AP Biology, or Environmental
Science*

Worldview:

Worldview Seminar and Senior Thesis

Other:

Additional fine art, additional science,
additional language, study hall, P.E., teacher
assistant.

CREDITS REQUIRED FOR GRADUATION: Class of 2015	
<i>Bible</i>	2
<i>English</i>	4
<i>Fine Arts</i>	1
<i>Foreign Languages</i>	3
<i>History</i>	4
<i>Math</i>	4
<i>Physical Education</i>	1.5
<i>Science</i>	4
Total	23.5*
* Out of 32 total hours available Does not include mandated electives, including the following:	
<i>Worldview</i>	2

Rising Juniors:

- English:**
American Literature
- History:**
U.S. History
- Fine Arts:**
Choir, Band, Art, or Yearbook
- Foreign Languages:**
Spanish III, Spanish IV, Latin III, or Mandarin III
- Math:**
Algebra II or Pre-calculus
- Science:**
Physics
- Worldview:**
Truth, Beauty, and Goodness in History
- Other:**
Additional fine art, additional science, additional language, study hall, P.E.

CREDITS REQUIRED FOR GRADUATION: Class of 2016	
<i>Bible</i>	1
<i>English</i>	4
<i>Fine Arts</i>	1
<i>Foreign Languages</i>	3
<i>History</i>	4
<i>Math</i>	4
<i>Physical Education</i>	1.5
<i>Rhetoric</i>	.5
<i>Science</i>	4
Total	23*
* Out of 32 total hours available Does not include mandated electives, including the following:	
<i>Worldview</i>	3

Rising Sophomores:

- English:**
Literature & Composition
- History:**
History of Western Civilization II
- Fine Arts:**
Choir, Band, Art Studio, or Yearbook
- Foreign Languages:**
Spanish II, Spanish III, Latin II, Latin III, or Mandarin II
- Math:**
Algebra II or Geometry
- Rhetoric:**
The Art of Speech or Argument & Debate
- Science:**
Environmental Science
- Worldview:**
Church History & Doctrine
- Other:**
Additional fine art, additional language, study hall, P.E.

CREDITS REQUIRED FOR GRADUATION: Class of 2017	
<i>English</i>	4
<i>Fine Arts</i>	1
<i>Foreign Languages</i>	3
<i>History</i>	4
<i>Math</i>	4
<i>Physical Education</i>	1.5
<i>Rhetoric</i>	.5
<i>Science</i>	4
Total	22*
* Out of 32 total hours available Does not include mandated electives, including the following:	
<i>Worldview</i>	4

Rising Freshmen:

English:

Introduction to Literature & Rhetoric

History:

History of Western Civilization I

Fine Arts:

Choir, Band, Art, or Yearbook

Foreign Languages:

Spanish II, Latin II, or Mandarin I

Math:

Adv. Algebra or Geometry

Physical Education:

Two semesters

Science:

Biology

Worldview:

How to Study the Bible and The Narrative of Scripture

Other:

Additional fine art, additional language, study hall, *Foundations of Language & Composition*

CREDITS REQUIRED FOR GRADUATION: Class of 2018	
<i>English</i>	4
<i>Fine Arts</i>	1
<i>Foreign Languages</i>	3
<i>History</i>	4
<i>Math</i>	4
<i>Physical Education</i>	1.5
<i>Rhetoric</i>	.5
<i>Science</i>	4
Total	22*
<p>* Out of 32 total hours available Does not include mandated electives, including the following:</p>	
<i>Worldview</i>	4

Courses by Department

English

The study of English encompasses more than vocabulary words and character lists. At the high school level, students will learn about the power of language, from writing to speaking, as they not only study the great thoughts and words of the world's classic works of literature, but also craft their own writing pieces. As a Christian school, we recognize that growing in wisdom and virtue requires the study of the word and the Word.

English Requirement: 4 credits

Required classes are as follows:

9th: Literature & Rhetoric

10th: Literature & Composition

11th: American Literature

12th: AP English Literature & Composition

Literature & Rhetoric

Credit: 1
Semester: Both
Prerequisites: None

Grade Level: 9
Instructor: K. Huggard

This course introduces freshmen to high-school level argumentation, composition, and literary analysis. Students learn to craft and prove a thesis in well-organized, well-supported expository and persuasive essays. Through the study of Greek and Shakespearean dramas, modern novels and short stories, lyrical and Biblical poetry, students learn the skill of in-depth literary analysis. Some literary units provide opportunities for creative writing, while others require memorization and public recitation of soliloquies or poetry. Weekly vocabulary units incorporate the study of word origins, roots, and analogies; grammar instruction reviews tenses, agreement, usage, punctuation, and parallel construction.

Literature & Composition

Credit: 1
Semester: Both
Prerequisites: None

Grade Level: 10
Instructor: K. Huggard

This course builds upon the foundations established freshmen year by *Literature & Rhetoric*. Literary units examine common, universally applicable themes that cross the lines of history and culture through the study of dramas, novels, and poetry. Students also study non-fiction literary forms such as autobiography, essay, and satire. Composition instruction encourages students to provide compelling textual evidence, incorporate quotations seamlessly, and further their personal style through sophisticated sentence structure and appropriate diction. Students complete an extensive research paper in conjunction with History of Western Civilization. Weekly vocabulary study continues, and grammar instruction focuses on sentence structure, conciseness and clarity.

American Literature

Credit: 1
Semester: Both
Prerequisites: None

Grade Level: 11
Instructor: K. Huggard

This survey course of American literature from 1620 to the present day, taught in conjunction with US History, reviews genres and authors representative of major literary movements and achievements, teaching students to incorporate historical and cultural understanding with their literary analysis. Students identify and discuss enduring themes present through all eras of American literature. Composition instruction guides students beyond formulaic essays and writing prompts as they individually choose paper topics to explore independently within each literary unit. The class reviews grammar and usage throughout the year, with special emphasis placed on SAT/ACT preparation. Weekly vocabulary study continues. Geared toward upperclassmen, the pace of this course dictates an increased reading and writing load over previous English courses.

AP English Literature & Composition

Credit: 1
Semester: Both
Prerequisites: None

Grade Level: 12
Instructor: K. Huggard

This course is fast-paced and rigorous; therefore, students should expect nightly reading, daily student-led discussion, and weekly writing assignments. Students study acclaimed texts drawn from the British and American literary canons, covering every era from the ancient Anglo-Saxons to contemporary African-American authors. Because of the emphasis placed on composition, the majority of each student's grade is based on writing. Student writing must reflect consistent and increasingly sophisticated application of the composition principles that have been taught in earlier grades, such as controlling tone and maintaining a scholarly voice; choosing appropriate, precise diction that reflects the writer's purpose; using sentence structure to keep the reader engaged and to clarify the relationship of ideas; building an effective argument by selecting and incorporating apt textual details to support broader claims; and utilizing rhetorical elements such as repetition, parallelism, and antithesis. Students practice and prepare for all sections of the AP Literature exam using prior AP exam multiple choice questions and essay prompts. There is ample opportunity to develop skills in each area before work is graded. Students are encouraged to take the AP English Literature and Composition test in the spring.

Foundations of Language & Composition

Credit: .5
Semester: Fall
Prerequisites: None

Grade Level: 9
Instructor: K. Huggard

This one semester course teaches the language skills necessary for success across the curriculum in high school. Students will master the basic elements of English grammar, such as parts of speech, parts of the sentence, phrases and clauses, and sentence completeness, as well as the foundational composition skills of sentence fluency and paragraphing.

Fine Arts

Fine Arts are an essential component of EBA's high school curriculum because an excellent Christian education must encompass the entire person -- body, mind, and spirit. Studies consistently show that students involved in Fine Arts are more likely to perform well in their academic studies, proving the benefits of a strong Fine Arts department because Fine Arts are the bridge that links the academic, spiritual, social, and physical aspects of learning. The goals of EBA's Fine Arts department include providing students with opportunities to develop God-given skills and abilities, helping them to learn important social skills, encouraging them to be servant-leaders, and helping them to grow spiritually, all for the glory of God.

Fine Arts Requirement: 1 credit

Art Electives

Credit: 1

Semester: Fall and Spring

Prerequisites: None

Grade Level: Multiple

Instructor: Arvold

These elective courses are offered to students who want to develop their skill in visual arts. All Art students are required to keep a sketchbook, creating 1 sketch per week. In addition, HS art students build individual portfolios to display at a final show their senior year and to use for college entrance if needed.

Drawing and 2D Design:

In this class, students will gain a strong foundation in drawing, taking a deeper look at the elements of art and principles of design, including graphic design. They will develop technical and compositional skills in drawing by using a wide range of media, such as graphite, colored pencil, charcoal, ink, and pastels. (1st Semester)

Painting:

In 2nd semester painting, students will expand their skills in using painting media such as watercolor, tempera, and acrylic by exploring a variety of subject matter: landscape, still life, and their own ideas. (2nd Semester)

Traditional Art and Craft:

Art has a cultural and historical significance, and in many cultures a function. In this class, students will be exposed to a variety of techniques and materials used around the world such as batik, mosaics, paper cutting, weaving, and more. (1st Semester)

Printmaking:

Printmaking is the process of creating images through the transfer of ink onto paper. In this class, students will explore the processes of the many types of printmaking: mono, relief, screen, block, colograph, and dry point. (2nd Semester)

Ceramics:

In ceramics, students will explore a broad range of techniques and approaches to art through hand-built clay: pinch, coil, and slab. Students will learn to approach ceramic artwork as both functional and decorative. (1st Semester)

Sculpture and 3D Design:

In this class, students will deal with shape, form, and space, in hands on, problem solving experiences using a wide variety of materials, while developing their technical skills and artistic appreciation for three-dimensional art. (2nd Semester)

Drama

Credit: .5

Semester: Spring

Prerequisites: None

Grade Level: 10

Instructor: TBD

This course will introduce students to the foundations of the dramatic arts. Students, who plan to be a part of the spring musical, should register for this course; however, participation in the musical is not dependent upon enrolling in Drama.

Music (Band/Choir)

Credit: 1
Semester: Both
Prerequisites: None

Grade Level: Any
Instructors: Carlton/Griffis

This class is designed for music students who want to further develop their music literacy and performance skills and use them for God's glory and the encouragement of others. Music from various periods and styles will be studied and performed. Concert performances include: Christmas, Spring, and possible festival or clinic. Participation in WSMA Solo & Ensemble Festival is required. Band students are expected to play in Pep Band and at Commencement. String players are included in HS Band.

Students choose from the following options:

- A:** Alternate Band & Choir
- B:** Five days of Band
- C:** Five days of Choir

Yearbook

Credit: 1
Semester: Both
Prerequisites: None

Grade Level: Multiple
Instructor: Lee

Class size limited to 8; preference is given to juniors and seniors

This course will give students the opportunity to create the Eastbrook Academy yearbook in its entirety – from planning to publication. This elective class incorporates photography, graphic design, composition, technology, and marketing, and teaches students valuable work-place skills as they master Adobe Creative Suite, specifically Adobe Photoshop and Adobe InDesign. With this powerful software, students truly are limited only by their imaginations. Class meets 1st and 2nd semester and may be taken for one semester or the entire year.

Foreign Languages

Foreign languages are a crucial part of the high school for several reasons. Not only does the study of a foreign language help students communicate with others in our increasingly intercultural society, but it also gives students valuable exposure to other cultures, greater understanding of their own language, developed social and communication skills, and the tools to help them spread the Word of the Lord to the ends of the earth.

Foreign Language Requirement: 3 credits

- At least two credits must be in the same language
- Students must reach the third level of at least one language

Latin II, III, IV

Credit: 1

Grade Level: Multiple

Semester: Both

Instructor: Heck

Prerequisites: Latin II, III, IV – Previous level of Latin

There is perhaps no language in the history of Western Civilization that has had a greater impact on our current culture than Latin, and students of Latin often excel above their peers in every academic subject.

Latin II:

This optional course for freshmen and sophomores will build upon the Latin foundation developed in the EBA Middle School and allow students to take the next step in their language study. A student in Latin II should expect improved knowledge of both English and Latin vocabulary and grammar, an expanded understanding of the relationship of the ancient world to his or her own, and an appreciation of other foreign languages and culture. Latin II will familiarize students with the language, culture, and history of the Latins by reading primary sources in the original language. The course will emphasize comprehension of the Latin language by reading it and will thus increase understanding the social and political history of the Romans, especially during the early stage of the Roman Empire.

Latin III:

This course will facilitate students in increasing vocabulary and achieving completion of the corpus of grammar required to read many authentic Latin writings. Students will read selections from Caesar, Cicero, Augustus, Pliny, Trajan, and Christian Latin authors Ambrose, Augustine, and Jerome. Through the words of these authors, they will increase their knowledge of the intricacies of the late Roman Republic, Roman Empire, and early Christian thought. Grammatical concepts and vocabulary will be reinforced in through the translation and historical context of these selections. The text is *Wheelock's Latin* with several ancillary readings.

Mandarin I, II, III, IV

Credit: 1 /year

Grade Level: Multiple

Semester: Both

Instructor: Shidler

Prerequisites: Mandarin I – None

Mandarin II-IV – Previous level of Mandarin

AP Mandarin – Teacher recommendation

Our courses integrate all the language skills from the very beginning through teaching, listening, speaking, reading, and writing Chinese characters. Chinese is a difficult language with no alphabet. Instead, each word has a character that must be memorized. It is also a tonal language. In the course of studying Mandarin, students have fun learning about China and Chinese culture as well. Chinese is spoken by more people than any other language on earth and the fastest growing second language in the world.

With China becoming increasingly important in the world economy, learning Chinese will definitely give students an edge in the future.

Mandarin I:

This course offers the foundations to studying Chinese. Students will master the pinyin writing system, learn about the four tones, learn how to write Chinese characters with the correct strokes and build a foundational vocabulary for simple conversation. Mandarin I students should master about 400 Chinese characters the first year and have a good introduction to China and Chinese culture.

Mandarin II:

This course continues with beginning Chinese and adds more topics and characters each lesson. Students will continue practicing speaking and understanding Chinese as well as reading and writing the characters. Year two students should master about 800 characters useful to everyday life and conversation.

Mandarin III:

In this course, students will continue on in their study of Chinese language and culture. They will learn to type in Characters and will begin to read longer books in Chinese. Mandarin III students expand their vocabulary to about 1200 Chinese characters. They should be well versed in character formation and have a solid understanding of Chinese grammar, word order and sentence patterns.

Mandarin IV:

This intermediate level Chinese course goes on to Level two Chinese in the Integrated Chinese series. It is more demanding and faster paced. Students will be reading and writing longer passages in Chinese. They will be required to speak at greater length and in more detail on various topics. They should be developing more native phrasing and intonation and be able to understand standard Mandarin speakers on these topics. Mandarin IV students should know about 1900 characters by graduation. We also cover some Biblical Chinese in this course so that students will be able to share their faith with someone in Chinese.

Spanish I, II, III, IV, V

Credit: 1 /year	Grade Level: Multiple
Semester: Both	Instructor: Harper
Prerequisites: Spanish I – None Spanish II-V – Previous level of Spanish	

These courses offer students a chance to learn and then hone skills in Spanish, a language that more people speak as their primary language than any other language on earth after Mandarin.

Spanish I:

This course is offered to those with no previous training and will help ground the student with a basic Spanish foundation to build upon. By the end of the year, students will be able to form sentences on their own, speak with complete thoughts, and exhibit basic comprehension when listening to native speakers.

Spanish II:

Spanish II is for the student with some Spanish background and will secure the basic foundation giving him/her the tools to be able to be more fluent. Students will learn to speak with confidence in the past, present and future tenses, and will also learn some simple subjunctives through practicing listening, oral and written skills.

Spanish III:

Spanish III will solidify students' understanding of the grammatical structure of the language, expand their vocabulary, boost their confidence levels, nudge them to think on their feet, and prepare them for the more demanding levels of the language in the following year. The textbook and teacher will integrate life experiences and Hispanic culture into the classroom.

Spanish IV:

Spanish 4 is a hands-on experience, putting into motion all the aspects of a second language and encouraging students to think on their feet. It combines short story work with Bible memory work and a wide variety of projects, including cooking presentations and an all-class mini-movie. Students will be expected to think in Spanish, to be more fluent, and to rely less on books or guidance. Translation/interpretation is encouraged.

Spanish V:

Spanish V is for the senior who wants to master the Spanish language and receive more exposure to the Spanish culture. It is a very interactive course, and translation/interpretation is required. The students will be challenged to read advanced literature and express themselves in a multitude of ways, including carrying on a conversation with a native speaker, listening with almost complete comprehension, and writing full length papers that use all of the verb conjugations in both indicative and subjunctive forms. Thinking and talking on their feet is a must in this class, and students will rigorously prepare to take the AP Spanish Exam.

History

The purpose of studying History in the high school is to develop an awareness of how people and societies have lived in the past and to use that awareness to understand the current state of our own society. As a Christian school, we also understand that God is a god who moves in and through history. Just as students, through the study of history, gain insight into the human condition, so also do students gain insight into the divine nature.

History Requirement: 4 credits*

Required classes are as follows:

9th: History of Western Civilization I

10th: History of Western Civilization II

11th: United States History

12th: U.S. Government and Politics **and** Foundations of Economics & Biblical Stewardship

History of Western Civilization I: Early Civilizations to the Renaissance

Credit: 1	Grade Level: 9
Semester: Both	Instructor: Bryan
Prerequisites: None	

This course for freshmen is the first of a two-part survey of Western Civilization and introduces the student to some of the leading figures, ideas, and events of the Ancient Near East and pre-modern Europe. In addition, the course exposes students to the concerns and methods of historical inquiry through lectures, analysis and discussion of selected primary and secondary sources, and writing of short papers. The goal of this course is for the student not only to acquire historical information but also to learn through example (lectures, textbook) and practice (discussions, essay examinations, papers) a historical/critical method of thought and expression. The best way to understand historical developments is to read and write about them, thus, the student can expect a good amount of both in this course.

History of Western Civilization II: Renaissance to Modern Period (AP Option)

Credit: 1	Grade Level: 10
Semester: Both	Instructor: Bryan
Prerequisites: History of Western Civ. I	

This course for sophomores is the second of a two-part survey of Western Civilization. The purpose of this course is to provide the student with the necessary information to understand the evolution of Western Civilization from the Protestant Reformation to the modern age, and its effects on the student's current worldview. The student will

build upon the knowledge and academic skills foundation from Western Civilization I. The student will be expected to show development in his or her grasp of historical content and, more importantly, analysis of that content. This development will set the foundation for the student's success in a variety of courses in the humanities. At the end of this Western Civilization courses, the student will be well prepared and encouraged to take the AP European exam, if he or she so desires.

United States History (AP Option)

Credit: 1

Grade Level: 11

Semester: Both

Instructor: Bryan

Prerequisites: History of Western Civilization I & II

This course in United States History is designed to provide a solid framework through which students can view the United States as it is today. The course will be centered on a series of essential questions and controversies, which will be thoroughly discussed and debated throughout the school year. Students will be expected to do comprehensive and specific readings, historical research, written papers, in-class presentations and other assignments to gain a more in-depth awareness of the themes of American history. This course will cover United States History in a chronological thematic approach. Those students who choose to take the AP US History exam in May will be given a substantially greater workload, including reading, writing and researching.

U.S. Government and Politics (AP Option)

Credit: .5

Grade Level: 12

Semester: Fall

Instructor: Bryan

Prerequisites: History of Western Civilization I & II, U.S. History

This course is set up around a series of important discussions and debates that deal with the hottest issues in the modern American political world. The object of the course is to provide students an understanding of daily government operations. Students will examine government structures and policies for the purpose of demonstrating understanding through written analysis and discussion of American government foundations and changes through time. In addition, students will examine and utilize various media to analyze its role and effect on citizenship participation in government and in current events both domestic and foreign. Students also track prominent political issues throughout the course for the purpose of understanding and explaining the implications of such issues. Those students who choose to take the AP Government exam in May will be given a substantially greater workload, including reading, writing and researching.

Foundations of Economics & Biblical Stewardship

Credit: .5

Grade Level: 12

Semester: Spring

Instructor: Bryan

Prerequisites: History of Western Civilization I & II, U.S. History, Worldview Seminar

This required course will give students a basic understanding of the fundamentals of both microeconomics and macroeconomics to prepare them to enter adult life and further education with a strong knowledge of how the economy operates and how it influences so much of what goes on in the world. In addition to acquiring an academic foundation in economics, students will discuss economic responsibility in light of Biblical stewardship. They will learn how to be good caretakers of the gifts God has bestowed upon them as those created in His image.

Current Events: Middle East (elective)

Credit: .5

Semester: Fall

Prerequisites: History of Western Civilization I & II

Grade Level: 11-12

Instructor: Bryan

This course is set up to help students critically analyze what is happening in the world today. The course will make frequent use of news sources and scholarly articles in order to understand situations from a variety of possible angles and biases. This will allow students to form and intelligently defend their own stances on the various national and global issues facing us today and in the future. The course will be focusing specifically, but not exclusively, on the Middle East, delving into its history to set a proper context for its current affairs.

Math

The reason for math in the high school is that God has designed such order to naturally exist in his world, and we benefit in many ways when we understand it. (Incidentally, research shows that one of the benefits of knowing higher levels of math is a higher income as an adult. There is a direct correlation.) The Mathematics program emphasizes the development of problem-solving strategies, computational skills and logical thinking, and encourages students to apply their work to real-life situations, to use technology, and to have a positive attitude towards math. Students will appreciate mathematics as a tool of modern society found throughout life and other academic disciplines.

Math Requirement: 4 Credits

Required classes are as follows:

9th: Advanced Algebra (see course description below) **or** Geometry

10th: Geometry **or** Algebra II

11th: Algebra II **or** Pre-Calculus

12th: Introduction to Calculus **or** AP Calculus AB

*All Eastbrook Academy students are required to pass pre-calculus in order to graduate.

Advanced Algebra

Credit: 1	Grade Level: 9
Semester: Both	Instructor: Erickson
Prerequisites: None	

This course is designed to solidify the crucial, foundational concepts of Algebra I for students who did not master these concepts in middle school. The properties of numbers are examined and extracted with variables. Equations and systems of equations are solved and graphed, emphasizing linear and quadratic functions. Rational and irrational numbers are considered. Additional topics in geometry, probability, and statistics are integrated into the course. Students will appreciate mathematics as a tool of modern society found throughout life and other academic disciplines.

Geometry

Credit: 1	Grade Level: 9
Semester: Both	Instructor: Erickson
Prerequisites: Algebra I with a grade of "B" or higher and a passing level on the Fundamentals of Algebra Qualifying Test	

This course will include the study of lines, planes, triangles, circles, and geometric solids. Students will also explore the fundamentals of geometric proofs, trigonometry, and logic. Through the study of geometry, students will develop reasoning and problem solving skills which are applicable to all areas of math as well as life.

Algebra II

Credit: 1	Grade Level: 10
Semester: Both	Instructor: Erickson
Prerequisites: Algebra I, Geometry	

This course builds on the base students acquired in Algebra I. Students will master mathematical concepts such as exponents and logarithms, solving linear equations, and basic trigonometry. As in other courses, Algebra II challenges students to use critical thinking skills in applying mathematics to situations found in the world around them.

Pre-Calculus

Credit: 1	Grade Level: 11
Semester: Both	Instructor: Erickson
Prerequisites: Geometry, Algebra II	

This course will explore many different and interesting aspects of mathematics. Some of these topics include trigonometry, probability, complex numbers, functions and graphs, logarithms, and much more. This is a great capstone for high school math as well as a strong foundation for continuing studies in calculus.

Calculus

Credit: 1

Semester: Both

Prerequisites: Geometry, Algebra II, and Pre-Calculus

Grade Level: 12

Instructor: Erickson

This course provides a basic introduction to the world of limits, rates of change, and areas under a curve. The goal of this course is to introduce the mathematical ideas represented in the discipline of Calculus, strengthen and increase the student's abstract problem solving abilities, and prepare them for further mathematical studies at a collegiate level. Students will be able to sample this exciting branch of mathematics without the stress of preparing for an AP exam.

Calculus I (AB) (AP)

Credit: 1

Semester: Both

Prerequisites: Pre-Calculus and teacher recommendation

Grade Level: 12

Instructor: Erickson

This course explores the new and exciting world of limits, rates of change, area under a curve, volumes of solids, and infinite series. It will stretch students' mathematical thinking, strengthen their high school transcripts, and prepare them for college in the fields of math and science. A primary goal for the year is to prepare students to take the AP Calculus AB exam in the spring for which they may earn college credit. AP standards are set on a national level and assume both an aggressive pace and a significant level of engagement from the students.

Calculus II Independent Study (BC) (AP)

Credit: 1

Semester: Both

Prerequisites: Calculus (AB) and teacher recommendation

Not offered every year

Grade Level: 12

Instructor: Erickson

This course, offered at the discretion of the math department, delves deeper into calculus and the principles of the derivative, integral, and infinite series. We will work with slope fields, analyze planar curves, and explore many practical applications of this mathematical discipline.

Physical Education

Physical Education in the high school focuses on training one's body as one trains spiritually to be godly for the present life and the life to come (I Timothy 4:7-8). Through activities that are both fun and educational, students will learn to honor God with their bodies as they acquire basic health, athletic, and social skills.

Physical Education Requirement: 1.5 credits

- Students are highly encouraged to take 1 credit in 9th grade, and .5 credits in 10th grade

P.E.

Credit: .5/Semester Semester: Fall/Spring Prerequisites: None	Grade Level: 9/10 (11/12 if necessary) Instructor: Kramer
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This course is designed to train students' bodies and build them up in a variety of physical activities. Students will learn discipline and teamwork, along with valuable athletic skills and knowledge for healthy living.

Rhetoric

Rhetoric in the high school exists to develop the all-important skills of public speaking in each Eastbrook Academy student. Students will—through practice, critique, and observation—learn how to speak both extemporaneously and with deliberate preparation so that they may have gracious speech, powerful voices, and bold proclamations of Truth.

Rhetoric Requirement: .5 credits (beginning with the class of 2016)

The Art of Speech and Debate

Credit: .5 Semester: Fall Prerequisites: None	Grade Level: 10 Instructor: Johnston
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This course is designed to expose students to the art of public speaking by examining, writing, and performing a variety of speeches. This course will challenge students to write and critique arguments so that, when they leave high school, they will be prepared to thoughtfully and articulately defend their worldviews. This class will focus on understanding how speech can be persuasive. In addition, students will learn to think on their feet to speak well and effectively in a persuasive manner. Students will learn about using rhetorical devices and delivery techniques to make their speeches strong and convincing as they read, hear, and perform historical speeches, dramatic excerpts, and original presentations. Students will construct good arguments and use those arguments in debate settings.

Science

Psalm 19 begins, "The heavens declare the glory of God; the skies proclaim the work of his hands. Day after day they pour forth speech; night after night they reveal knowledge." Science students at Eastbrook Academy's high school study the natural world to learn about God's handiwork. In the three primary spheres of science, they learn the major laws and systems that operate in the world around us, from the respiratory system to relativity, while taking part in analysis, research, and experiments.

Science Requirement: 4 credits

Required classes for 2014-2015 are as follows:

9th: Biology

10th: Environmental Science

11th: Physics

12th: AP Biology or Astronomy

Biology

Credit: 1	Grade Level: 9
Semester: Both	Instructor: Brown
Prerequisites: Algebra I	

This course will study the living world, including microscopic organisms, fungi, plants, and animals. In Biology, students will gain a general understanding of the importance of life and life processes. This biology course, therefore, is aimed at introducing principles and concepts that apply to life at all levels of organization, no matter how simple or complex they may be. Our study begins by examining those general characteristics that are shared by all living things. These include similarities in chemical makeup, energy usage, ability to reproduce and community involvement.

Environmental Science (AP Option)

Credit: 1	Grade Level: 10
Semester: Both	Instructor: Brown
Prerequisites: Biology, Chemistry	

This course will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Students may earn college credit by performing well on the AP Environmental Science exam.

Physics

Credit: 1	Grade Level: 11
Semester: Both	Instructor: Bearss
Prerequisites: Algebra II, Trigonometry, and Chemistry	

This course will explain the central concept of energy and its application to all areas of Physics. Students focus on five general areas: Newtonian mechanics, thermodynamics, electricity and magnetism, waves and optics, and nuclear Physics. Students will gain an understanding of the core principles of physics and then apply them to problem-solving exercises. Fundamental concepts are reinforced through the use of mathematical models, including the extensive use of trigonometry and scientific notation. Student assignments will include extended collaborative laboratories and the use of computer simulations. The course gives a solid basis for moving on to more advanced physics courses—including AP Physics.

Note: Students are required to have a scientific calculator for course work completion.

AP Biology

Credit: 1	Grade Level: 11/12
Semester: Both	Instructor: Brown
Prerequisites: Biology with a minimum of “B”, Chemistry with a minimum of “C”	
Offered every even year	

This course is designed to be the equivalent of a two-semester college introductory biology course usually taken by biology majors during their first year. The AP Biology course is designed to be taken by students after the successful completion of a first course in high school biology and one in high school chemistry as well. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology

Astronomy

Credit: 1	Grade Level: 11/12
Semester: Both	Instructor: Bearss
Prerequisites: Physics (may be taken concurrently with Physics)	
Offered every even year	

This course will focus on the exploration of the solar system, stars and stellar systems. Concepts such as observational astronomy, astrophysics and the use of specific scientific laws will enhance student understanding and allow them to utilize higher order thinking skills. Emphasis is placed on investigating the methods by which astronomers gain knowledge about the universe. Extensive use of computer simulations will provide relevance to classroom investigations, as well as assist students in developing quantitative skills and interpreting data. Field trips to local observatories will be part of the classroom curriculum. Most importantly, this course will give students the opportunity to learn more about the wonder and majesty that is the universe of God’s own creation.

Worldview Core

God commands his people to bring their children up in the way they should go. The Worldview Core exists to impress the wisdom of the Lord on the hearts, minds, and actions of Eastbrook Academy high school students. Within the Worldview classes, students will learn how to dive deeply into the word of God, how to understand the history of Biblical interpretation, how to identify the way worldviews influence art and culture, and how to defend their own Christian worldview in the cacophony of competing worldviews. Students will constantly be encouraged to take every thought captive for God through discernment of what is true, honorable, just, pure, lovely, commendable, and excellent.

Worldview Core: 4 credits

9th: How to Study the Bible **and** The Narrative of Scripture

10th: Church History & Doctrine

11th: Truth, Beauty, and Goodness in History

12th: Worldview Seminar **and** Senior Thesis

How to Study the Bible

Credit: .5

Semester: Fall

Prerequisites: None

Grade Level: 9

Instructor: S. Sopa

The Bible serves as the foundation to the Christian worldview, and, as such, it demands its readers to be well-informed and proper handlers of the Truth. This course will expose students to the various methods of biblical interpretation. Students will learn about the various literary genres contained within the books of the Bible and be able to utilize literary criticism to enhance the depth and meaning of the text. In addition, students will be introduced to the historical-critical method of biblical interpretation with its benefits and limitations. Students will apply these hermeneutical tools to each genre contained in the Bible so that they will be prepared to read and study the Bible, inductively and deductively, on their own and in groups.

The Narrative of Scripture

Credit: .5

Semester: Spring

Prerequisites: How to Study the Bible

Grade Level: 9

Instructor: S. Sopa

The second part of the high school worldview foundation in ninth grade, the Narrative of Scripture course will take the specific tools introduced in the first semester and apply them to the narrative of redemption that runs through both the Old and New Testaments. Students will be challenged to integrate seemingly disparate elements from the OT and NT into one cohesive narrative that outlines the God's redemptive move in time and places. Students will be expected to think and communicate, in oral presentation and on paper, how specific texts fit within the broader story of humanity's redemption.

Church History & Doctrine

Credit: 1

Semester: Both

Prerequisites: None

Grade Level: 10

Instructor: L. Shidler

In this course, students will experience the development of the Christian faith through the lenses of history and theology. The course assumes that God is the God of history and intellect and moves in both; therefore, this course will blend the historical and theological methods of inquiry in order to examine the great doctrines of the Christian faith in their biblical, historical, and theological contexts. Students will identify the biblical precedents and concomitant movements in history with the resultant theological doctrines that shape the Christian faith. This course will focus on the doctrines that all Christians have in common but will also touch upon those doctrines that reveal a diversity of belief within the Christian community.

Truth, Beauty, and Goodness in History

Credit: 1

Semester: Both

Prerequisites: None

Grade Level: 11

Instructor: S. Sopa

This course will teach students that art is one window into the worldview of the culture that produced it. Through a chronological survey of the history of drama, music, and visual art, students will learn how to identify and critique the way philosophy and worldview are imprinted upon a culture's aesthetics. They will discuss what constitutes the classical virtues of Truth, Beauty, and Goodness in the arts and how God is reflected in those works. Through immersion in works of art, class discussions, and written critiques, students will acquire the ability to recognize themes and analyze the purpose and value of aesthetics within a Christian worldview. Students will connect these virtues in history to the current expressions of Truth, Beauty, and Goodness in our own culture.

Worldview Seminar

Credit: .5
Semester: Fall
Prerequisites: None

Grade Level: 12
Instructor: Bryan

This course will expose seniors to the vast array of world philosophies that they will encounter in higher education and beyond. Known casually as the “isms,” worldviews such as Marxism, feminism, postmodernism, and more will be examined in light of Christian truths. The course will look at how worldviews self-identify in order to understand the fundamental beliefs upon which they are based. Students will be expected to take on a teaching role in teams and as individuals in true seminar style. Through the guided evaluation of competing worldviews, students will learn practical analytical and communication skills, along with the ability to defend their own worldview and to gracefully interact with those who hold others.

Senior Thesis

Credit: .5
Semester: Spring
Prerequisites: Worldview Seminar

Grade Level: 12
Instructors: K. Huggard

This course is the capstone of a high school education at Eastbrook Academy. Following *Worldview Seminar*, students will take on the task of writing a scholarly thesis, in which they must articulate their worldview and then explore a controversial topic in an area of interest. From the perspective declared in their worldviews, students will take a position and form an argument on their chosen topic. They will, with the assistance of teachers, as well as advisors in their area of interest, create an academic, research-based essay of between 15-20 pages in length. Upon completion, students will also defend their thesis orally before a panel.