



# **2021-2022 High School Course and Curriculum Guide**

Dr. Andy Zawacki  
*Head of School*  
Andy.Zawacki@arborbrook.org

Jamie Emrich  
*Upper School Principal*  
Jamie.Emrich@arborbrookhigh.org

Jeri Zangmeister  
*Guidance Counselor*  
Jeri.Zangmeister@arborbrook.org

# Table of Contents

Recommended Four Year Course of Study	3
Advanced Program and Course List	4
Elective Program and Course List	5
Dual Enrollment Program and Course Descriptions	6-8
Honors and College Prep Course Descriptions	8-11

# Recommended Four Year Course of Study for High School Students

Below is the recommended course load for High Schools students. Optional and semester length courses during the Junior and Senior year are noted. Our Guidance Counselor meets with students every year to develop a course load that is right for them.

Students will take one math course per year but can be advanced one grade in the math track. Dual Enrollment classes are encouraged for all students but not required. Students can take Honors in all core classes starting their Freshman year.

## Grade 9

Freshmen Literature & Comp (H,CP)  
Algebra 1 / Geometry+ (H,CP)  
Environmental Science (H,CP)  
Spanish 1 (H,CP)  
World History (H,CP)  
Bible  
Health & PE  
Chromebook 101  
Elective (2)

## Grade 10

British Literature & Comp (H,CP)  
Geometry / Algebra II+ (H,CP)  
Biology (H,CP)  
Spanish II (H,CP)  
US History 11 (DE, H, CP)  
Bible  
Worldview  
Leadership Training  
Elective (2)

## Grade 11

American Lit & Comp (H,CP)  
Algebra II / Pre-Calculus + (H,CP)  
Chemistry (H,CP)  
US History 11 (DE, H, CP)  
Dual Enrollment Spanish\*  
Christian Apologetics  
Bible  
Junior Seminar  
Elective (2)

## Grade 12

World Lit & Comp (DE,H,CP)  
Discrete Math CP/Pre-Calculus H  
Calculus DE\*  
Anatomy & Physiology DE\*  
US Government (DE,H,CP)^  
Economics (DE,H,CP)^  
Bible  
Dual Enrollment Psychology\*^  
Dual Enrollment Sociology\*^  
Elective (2)

\*optional course

^semester course

+students can be advanced one year in Mathematics

CP - College Prep

H- Honors

DE- Dual Enrollment

# Advanced Program and Courses

Arborbrook offers an Honors program during all four years of High School and a Dual Enrollment program during the Sophomore, Junior and Senior years. These courses are designed to engage students at a deeper level in the given subject matter, enriching their preparation for college work.

Students receive one extra quality point in the GPA for Honors classes and two extra quality points in their GPA for Dual Enrollment classes.

## Honors Courses Offered

<u>Humanities</u>	<u>Math and Science</u>
Freshman Literature & Composition	Algebra I
British Literature & Composition	Geometry
American Literature & Composition	Algebra II
World Literature & Composition	Pre-Calculus
Spanish I	Environmental Science
Spanish II	Biology
World History	Chemistry
US History I	
US History II	
US Government	
Economics	

---

## Dual Enrollment Courses Offered

<u>Humanities</u>	<u>Math and Science</u>
World Literature	Calculus
Senior Language & Composition	Anatomy & Physiology
Spanish	Psychology
Economics	
US Government	
US History	
Sociology	

# Elective Program and Courses

Arborbrook offers elective courses in the fine arts and STEM. Students have the option of taking an Art or Tech track over the course of four years. These tracks allow students to develop a portfolio or body of work and knowledge over time.

## **STEM Courses Offered**

Chromebook 101  
Web Design 1  
Web Design II  
Graphics Arts  
Advanced Technology  
Video Production  
Forensics

## **Fine Arts Courses Offered**

Foundations in Art  
Painting  
Mixed Media  
Drawing  
Printmaking  
Studio Art  
Theater  
Worship Band

Not all courses listed are offered every year. Courses are offered on a rotating basis based on student need and interest.

---

## **Additional Elective Offerings**

The following classes have been offered to meet and further students' interests. These courses are generally offered every other year. Additional courses may be added dependent upon student need and interest.

Archery  
Coaching/Sports Ministry  
Culinary Arts  
Fitness  
Sign Language  
Personal Finance  
PE

# Dual Enrollment Program and Courses

Arborbrook partners with Ocean County College in Ocean County, NJ to offer embedded dual enrollment courses to our Juniors and Seniors.

- ❖ These courses are taught on our campus by our teachers during the school day.
- ❖ Students receive up to three hours of college credit per course that can be transferred to colleges and universities after students graduate.
- ❖ Students can earn a potential of 24 credit hours prior to graduation. This equals one Freshman year of college.
- ❖ Students also receive experience in taking challenging college level courses with Christian teachers who know and care for them. These courses are excellent preparation for the college learning environment.

There is a distinct advantage of taking DE classes over AP classes.

- ❖ DE credits are guaranteed. AP college credits are never guaranteed.
- ❖ AP courses try to mimic college courses. DE courses ARE college courses.

Arborbrook will pay for the first 3 credit hours for Juniors and 7 credit hours for Seniors.

- ❖ That is a benefit of up to \$1000 per student.
- ❖ Credits equaling an entire Freshman year of college would cost **only** \$1400 to families.

## DUAL ENROLLMENT COURSE DESCRIPTIONS

*Not all courses are offered every year depending upon student need and interest.*

### ***Psychology 172 (3 credit hours)***

This introductory course focuses on the study of behavior and cognitive processes. Emphasis is on neuroscience, states of consciousness, human development, sensation and perception, learning, memory, intelligence, emotion and motivation, personality, psychological disorders, psychotherapy, and social behavior.

### ***Sociology 181 (3 credit hours)***

This course presents the fundamental concepts, sociological perspectives, and methods of social research. Course topics include culture, socialization, deviance, social class, race and ethnicity, and gender and sexuality.

### ***Biology 130, Anatomy and Physiology (4 credit hours)***

This course is encouraged for those wishing to pursue a Science or Health major in college. Students will learn about the structure of the human body by studying and memorizing the various systems. This course includes a Lab.

### ***English 151 (3 credit hours)***

This fall semester course will instruct students in academic and persuasive writing. Students will learn and practice the writing skills necessary to succeed in a college academic setting.

### ***English 152 (3 credit hours)***

This spring semester course will instruct students in the analysis of literature. Students will read various texts and learn the skills associated with comprehending works written at a collegiate level.

### ***Elementary Spanish 1 and 2 (3 credit hours per class)***

This year long course is designed to continue building the student's Spanish language proficiency based on listening and reading comprehension, speaking and writing. Audio as well as computer based material are used to reinforce and expand the skills practiced and taught in the classroom.

### ***History 174- United States History from 1877 (3 credit hours)***

This year long course traces developments from the end of the Civil War to the end of the Second World War with emphasis on reconstruction, the industrialization of America, and her emergence as a world power.

### ***Political Science 161 - American Federal Government (3 credit hours)***

This course is a survey of the origins, development, and structure of our national government and political system in theory and practice. Students will be introduced to the ideas and institutions that shape contemporary U.S. politics.

***Economics 151 - Macroeconomic Principles*** (3 credit hours)

This course focuses on the American economic system, including private enterprise, the role of government in the economy, supply and demand, national income measurement and theory, and fiscal and monetary policy.

---

## College Prep & Honors Courses Course Descriptions

### MATH

#### ***Algebra I***

In Algebra I, students will focus on the fundamental aspects of problem solving, while introducing variables and their properties. They will gain skills in linear graphing and apply algebraic concepts to various real-life problem solving. The text for this course is *Algebra I, Third Edition* by Bob Jones University Press.

#### ***Geometry***

In Geometry, students will learn to prove theorems, and apply several concepts such as constructions, area, and volume in real-life applications. They will use technology in problem solving and focus on analytic geometry. The text for this course is *Geometry, Third Edition* by Bob Jones University Press.

#### ***Algebra II***

In Algebra II, students will master the topics covered in Algebra I and advance to increasingly complex concepts. The main focus of the class is algebra and the practice of skills such as completing the square, simplification of radicals, abstract equations, advanced inequalities and graphing. It includes several lessons that lay the foundation for fundamental physics and chemistry. The text for this course is *Algebra II, Third Edition* by Bob Jones University Press.

#### ***Pre-Calculus***

This course focuses on trigonometry, logarithms, geometry, and upper-level algebra. There is a heavy emphasis on problem solving skills. The concepts covered in this course are meant to prepare students for calculus, physics and other advanced mathematics courses in college. The text for this course is *Pre-Calculus* by Bob Jones University Press.

#### ***Discrete Math***

In Arborbrook's Discrete Mathematics course, students will study and explore real life mathematical scenarios. They will work on discrete probability and statistical analysis throughout the year. Students will learn to find central tendencies and represent these values in various forms from distribution graphs to frequency charts. They will have opportunities to analyze various data and test out their hypothesis to the given scenario.

## SCIENCE

### ***Environmental Science***

In this course, students will study units such as Ecology, Land and Water Use, Energy, and Sustainability. Students will gain scientific knowledge and skills as they develop an appreciation of God's creation. The text used for this course is *Environmental Science: Toward a Sustainable Future*, 11<sup>th</sup> edition by Richard Wright.

### ***Biology***

In this course, students will gain a deeper understanding of the chemistry of Life, Cells, Life Functions and Genetics through theoretical concepts, activities, and labs. Students will appreciate the complexity and majesty of God's creation firsthand. The text for this course is *McDougal Littell Biology*.

### ***Chemistry***

In this course, students will study units including matter, the language of Chemistry, phases of Matter, solutions, and their behavior, and Energy. Students will gain scientific knowledge and skills as they develop an appreciation of God's creation. The text for this course is *Modern Chemistry* by Holt, Rinehart, and Winston

## HISTORY

### ***World History\****

Students will study events in World History from Exploration to the present day over the course of two years, considering significant people, events, and changing ideas throughout history. The text for this class is *World History for Christian Schools, 2<sup>nd</sup> Ed.* by BJU Press. Texts will also include a historical fiction novel.

### ***U.S. History II\****

Students will study events in American History from Reconstruction to the present day. The text used for this course is *America: The Last Best Hope, Vol I & II* by William Bennett, covering the years from 1870-2001. Additional texts are *All Quiet on the Western Front* and *Bomb, The Race to Build and Steal the World's Most Dangerous Weapon*.

### ***Government and Economics\****

In Economics, students learn fundamental economic theories and how they have influenced our society, nation, and world throughout history. The text is Notgrass *Economics*. In Government, students study the history of US governmental systems, current issues in

government, and the impact and influence of the US government on the world. The text is *Notgrass Government*.

\* In all History classes, students will read original source documents, debate topics, research, write, participate in group discussions, prepare oral presentations and do projects, all with the goal of making history come alive. Students will also analyze current events.

## ENGLISH

### ***Freshman Literature and Composition***

This class will introduce students to the study of English at the high school level. Students will begin to learn how to analyze literary texts and write academic papers. Students will write a major research paper comparing characters in *Animal Farm* to their counterparts in the Russian Revolution. Students will also engage in creative writing. Some of the authors studied during the year range from Homer and Henry David Thoreau to Edgar Allan Poe and Harper Lee. The Shakespeare play for this year is *Hamlet*. Additionally, students will study grammar and vocabulary using *Wordly Wise* and *Sentence Composing for High School*.

### ***British Literature and Composition***

British literature is the focus of this class, reading the classic works *Frankenstein*, *The Screwtape Letters*, *Beowulf* and *The Canterbury Tales* among others. The Shakespeare play for this year is *Romeo and Juliet*. The writing emphasis is on narrative, descriptive, and reflective writing. Additionally, students will study grammar and vocabulary with *Wordly Wise* and *Grammar for High School, A Sentence Composing Approach*.

### ***American Literature and Composition***

Students will read such books as *The Scarlet Letter*, *The Adventures of Huckleberry Finn*, *The Old Man and the Sea*, *The Great Gatsby*, and *A Raisin in the Sun* among other titles. The Shakespeare play for this year is *Taming of the Shrew*. Writing will include analytic papers based on the literature and a research paper. Students will study grammar and vocabulary using *Wordly Wise* and *Paragraphs for High School*.

### ***World Literature and Composition***

Russian literature and World literature will be the focus of this class. Students will read *Crime and Punishment*, *Things Fall Apart*, short stories by Tolstoy, and *Night*, among other great works. The Shakespeare play for this year is *Macbeth*. Students will write analytic and persuasive papers. They will study grammar and vocabulary usage with *Wordly Wise* and *Non-Fiction Writing for High School*.

## FOREIGN LANGUAGE

### ***Spanish I***

Students will learn Spanish through direct instruction, conversation and grammar. Textbooks used are *Spanish I* from Paso a Paso and Barron's *501 Spanish Verbs*.

## ***Spanish II***

Students will continue to learn and refine their conversational Spanish and Spanish grammar through direct instruction, reading, projects, and interactions with other Spanish speakers. Textbooks used are *Spanish II* from Paso a Paso and Barron's *501 Spanish Verbs*.

## **BIBLE**

### ***Bible***

Students will participate in small group Bible studies, reading & discussing Scripture, learning spiritual disciplines such as verse memory, and praying for one another as they grow into mature and effective followers of Christ. Students will also engage in inductive Bible study of an Old and New testament book on a rotating basis all four years.

### ***Worldview***

Surveys reveal that a majority of Christian young people walk away from Christ after four years of a university education. Why? Because they are not prepared to defend their faith in a world that, in most cases, presents ideas contrary to their biblical beliefs. This class will take students on a journey into the world of ideas that are shaping our culture, surveying different worldviews, while teaching them to respond with a Christian worldview. The text used for this course is *The Universe Next Door* by James Sire.

### ***Apologetics***

This course will concentrate on learning how to defend the faith, emphasizing biblical truth and counter-cultural reasoning with the goal of the student being prepared to impact his or her world for the Kingdom. Text used is *On Guard: Defending your Faith with Reason and Precision* by William Lane Craig.

## **AUXILIARY COURSES**

### ***P.E. / Health***

Using a wonderful resource called *Made in His Image* by Randy J. Guliuzza, students will discover the complexities of the human body while learning practical skills of how to be a good steward of our bodies. A mix of practical, hands-on skills training and classroom instruction, this will offer students a wide variety of exposure to basic foundational life skills in the area of fitness and health.

### ***Junior Seminar***

Students learn how to apply to college and explore options for after High School. They also learn the tools necessary to assess which schools and careers will be best for them. This course is highly interactive and reflective for students. This course is taught by our Guidance Counselor who takes time with each student to develop a plan for them after high school.

### ***Leadership Training***

This course, taught by Dr. Zawacki, helps students understand the fundamentals of Christian leadership and learn how they can develop their own leadership skills in the context of God's kingdom.