



Arborbrook Christian High School
4823 Waxhaw-Indian Trail Rd.
Matthews, NC 28104
(704) 821-9952 www.arborbrook.org

Course Descriptions 2017-2018: Grades 11 & 12

Math:

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.

Advanced Math

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 *Saxon Advanced Mathematics, 2nd Ed.*

Pre-Calculus/Trigonometry & Calculus I

Students who would like to take a higher-level math course may take these courses online through CPCC or SPCC. There may be an additional fee for these online courses, which count for concurrent college credit.

Science:

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.

Physics

An introductory course in physics with emphasis on mechanics, sound, thermodynamics, optics, electricity, and magnetism. Students will learn how physics helps to explain the world around them and will begin to incorporate math into their understanding of science. Pre-requisites- Algebra II and Chemistry. The text for this course is *Holt Physics*.

English:

English C: American Literature

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 *Warriner's English Grammar*.

English D: Russian & World Literature

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 *As You Like It*. Students will write analytic and persuasive papers, They will study grammar and vocabulary usage with *Wordly Wise* and *Sentence Composing for High School*

History:

U.S. History II

Students will study events in American History from World War I, the Roaring Twenties, Great Depression and New Deal, World War II and the late Twentieth Century. The text used for this course is *America: The Last Best Hope, Volume II* by William Bennett, covering the years from 1914-1989. It also includes historical fiction such as *All Quiet on the Western Front*. Students will read original source documents, debate topics, research, write, participate in group discussions, prepare oral presentations and projects. Students will also analyze current events.

Civics & Economics

Students will learn how our government functions, how the three branches of government work together, and how states and the federal government work. They will study the Constitution and Bill of Rights, and consider various theories of economics as they complete hands-on projects, participate in debates, and more. The texts for this course are *Exploring Government* and *Exploring Economics* by Ray Notgrass.

Required Auxiliary Courses:

Junior Seminar/SAT Prep. (11th grade)

This course will assist students in preparing for the SAT exam. Students will practice taking the test with practice questions and learn strategies for doing as well as they can on this exam, which is extremely important to colleges both for entrance and for scholarship assistance.

Foundations of Finance (12th grade)

This course will empower students to make sound financial decisions for life. Students will learn how to establish a personal budget, understand investments, set and achieve financial and career goals, recognize the dangers of debt, and become a smart consumer. Biblical principles of money management are taught using Dave Ramsey's high school curriculum *Foundations in Personal Finance*.

Foreign Language:

Spanish III

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

Spanish IV

Students will study and practice advanced Spanish working towards fluency and mastery through the use of classic Spanish literature, film, and in-depth projects.

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. The emphasis Junior year is on spiritual growth and students will study a New Testament epistle as well as masculinity for boys and femininity for girls. Senior year, the emphasis is on "planting seeds and bearing fruit." Students will study the book of Acts and will be encouraged to take on various roles of leadership, mentoring and outreach with opportunities for practical application at school and outside of school.

Apologetics (10th grade)

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.

Electives:

P.E./Health

Using a wonderful resource called *Made in His Image* by Randy J. Guliuzza, we 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.

Performing Arts

At least one performing arts course will be offered each semester. In praise band, students will use their musical gifts in worship, sing choral pieces in parts, and discuss what it means to be a Christian artist. They will help lead worship during multiple Assembly times. In Drama, students will work together to produce the Spring production which will be entered in the Blumeys. Students can be involved in both acting and technical work for the show.

Visual Arts

At least one visual arts course will be offered each semester. Both semesters, we typically offer an art class, sometimes in a particular medium. Yearbook is also offered all year, with students working to produce and publish the Arborbrook yearbook. They will hone their writing, computer graphics, editing, and layout skills as they work together as a team.

Other Elective Offerings

Other elective courses next year *may* include: Culinary Arts, Creative Writing, Computer Programming, Archery, Public Speaking, Photography, and Permaculture. Courses are based on student interest and instructor availability.

Spring Term, Edu Trips & Missions

All students will have the opportunity to take a one-week intensive elective during Spring Term for which they will earn ¼ credit. Past offerings have included Home Economics, Photography, Sports and Nutrition, Project Management, Auto Mechanics, History trips, Nicaragua Missions trip (including Spanish Immersion school), Indiana Service Trip, and more. These classes and trips take place one week in March.