



## Arborbrook Christian High School

4823 Waxhaw-Indian Trail Road

Matthews, NC 28104

(704) 821-9952 www.arborbrookhighschool.org

### Course Descriptions 2015-2016: 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. The text for this course is *Saxon Algebra II, Third Edition*.

##### ***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, 2<sup>nd</sup> 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.

#### **English:**

##### ***English C: American Literature***

American literature is the focus of this class. 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.

##### ***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 papers based upon the literature they are reading, will compose and

deliver a persuasive speech, and will study grammar and vocabulary.

#### **Science:**

##### ***Chemistry***

Students will study matter and how it changes, including modules on measurement and units; energy, heat, and temperature; atoms and molecules; solutions, thermodynamics, and more. The text for this course is *Exploring Creation with Chemistry, 2<sup>nd</sup> Edition*.

##### ***Anatomy & Physiology***

In this advanced biology course, students will study the anatomy and physiology of the human body's eleven organ systems in detail. Prerequisites for this course are biology and chemistry. The text for this course is a college-level text entitled *The Human Body: Fearfully and Wonderfully Made*.

#### **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 in all history courses will debate topics, create computer animations, and read original source documents as well as historical fiction, all with the goal of making history "come alive" for students. Students will also discuss and analyze current events regularly.

##### ***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, elect candidates for school office, and much more.

## **Required Auxiliary Courses:**

### ***SAT Prep. (11<sup>th</sup> 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 (12<sup>th</sup> 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 Bob Jones Press and Barron's *501 Spanish Verbs*.

### ***Spanish IV***

Students will learn Spanish through direct instruction, conversation and grammar. Textbooks used are *Spanish IV* from Bob Jones Press and Barron's *501 Spanish Verbs*.

### ***Latin I***

We may offer Latin I for the first time as an alternative to Spanish or for those who wish to take Latin in addition to Spanish. We will need a minimum of 6 students for this course to be offered.

## **Bible:**

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Students will learn spiritual practices (prayer, Bible study, spiritual disciplines, etc.) that put them in a posture of openness to the Holy Spirit's leading and guidance so that they can be developed and nurtured into mature and effective followers of Christ. The specific books and passages have yet to be determined.

## **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***

One performing arts course will be offered each semester. In praise band offered in the fall, students will use their musical gifts in worship, sing choral pieces in parts, and discuss what it means to be a Christian artist. In drama, offered in the spring, students will learn how to use voice, mime, and movement to convey a character, and perform scenes, preparing for a production.

### ***Visual Arts***

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 Offerings***

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

### ***May Term, Edu Trips & Missions***

All students will also have the opportunity to take a one-week intensive elective during May Term. Past offerings during May Term have included Home Economics, Wilderness/ Photography trip, History trip to D.C. & Gettysburg, Nicaragua Missions trip (including Spanish Immersion school), Indiana Service Trip, and more. Summer opportunities include Spanish Immersion School in Nicaragua, for which a student may earn credit.