



## 10th Grade Course Descriptions

### **HUMANITIES**

#### **Humanities II (English 10, Ancient History, & Bible II)**

Humanities II utilizes the *Omnibus* curriculum (Veritas Press), a Great Books curriculum that grounds students in their faith. The students engage in material from some of the greatest thinkers alive and analyze the ideas presented from a Biblical worldview through a variety of methods such as discussion, debate, and writing. Humanities II combines history, theology, and literature to help students grow in their appreciation of the unity of all knowledge.

Humanities II students engage in readings and discussions focused on the Ancient time period (Creation - AD 70) using *Omnibus IV*. Examples of material covered are *Proverbs*, *The Iliad*, *Twenty Thousand Leagues Under the Sea*, and *Desiring God*.

### **SCIENCE**

#### **Chemistry**

Chemistry is the exploration of the matter making up God's creation and how it changes. Using Apologia's *Exploring Creation with Chemistry*, we devote our year to studying 16 modules related to exploration of the invisible! Through book study and laboratory experimentation, students develop an appreciation for the unseen world. Emphasis is placed on proper lab journaling and formal scientific documentation, as well as lab safety. First semester content includes exploration of proper measurement and scientific methodology, understanding atoms, molecules, polyatomic ions and their structures, molecular geometry, and chemical reactions. In the second semester, students learn stoichiometry, acid and base chemistry, the chemistry of solutions, the laws of gases, energy/heat/temperature and corresponding thermodynamics, kinetics, and chemical equilibrium.

Prerequisite: Students must have earned a C or higher in Algebra I.

### **MATH**

#### **Geometry**

This course in Geometry will be using the textbook *Geometry* (Prentice Hall Mathematics). Students will focus on several core topics, which include the following:

tools of geometry, reasoning and proof, parallel and perpendicular lines, triangles, quadrilaterals, area, similarity, right triangle trigonometry, surface area and volume, circles, and transformations. Lecture with note taking will be followed by class time working on assignments. Time will be spent investigating and consolidating concepts and procedures. Problem solving strategies are explicitly taught and then used to develop core concepts and solve challenging problems. The concepts developed in this class will carry on in future mathematics courses.

Prerequisite: Students must have earned a C or higher in Algebra I.

### **Algebra II**

This course in Algebra II will be using the textbook *Algebra II* (Prentice Hall Mathematics). Students will focus on several core topics, which include the following: tools of algebra; functions, equations, and graphs; linear systems; matrices; quadratic equations, functions, and relations; polynomials and polynomial functions; radical functions and rational exponents; exponential and logarithmic functions; rational functions; sequences and series; probability and statistics; periodic functions and trigonometry. Lecture with note taking will be followed by class time working on assignments. Time will be spent investigating and consolidating concepts and procedures. Problem solving strategies are explicitly taught and then used to develop core concepts and solve challenging problems. The concepts developed in this class will carry on in future mathematics courses.

Prerequisite: Students must have earned a C or higher in Geometry.

## **FOREIGN LANGUAGE**

### **Spanish II**

The Spanish II course is a continuation of the Spanish I course. Throughout the course, students will build upon prior knowledge of the language and culture, learning new ways to express oneself in Spanish, and acquiring language skills needed for communication and Christian outreach. Students will engage in a variety of activities including reading, writing, listening, and speaking in order to broaden his or her knowledge of Spanish vocabulary and grammar. The Spanish II curriculum is a blend of a traditional high school Spanish curriculum with the addition of *Spanish with a Mission* resources, children's books, weekly Scripture reading, and music. The goal is to build not only a strong foundation in the language, but also help equip students to communicate the hope of the Gospel with the Spanish-speaking world.

Prerequisite: Students must have earned a C or higher in Spanish I

## **VISUAL AND PERFORMING ARTS**

### **ART II**

Art II is designed to allow students to further their skills and knowledge from Art I. Students will review the elements of art and principles of design. Students will be challenged to apply the concepts & skills developed in Art I to more advanced creative art projects in this second-year art course.

Prerequisite: Students must have earned a C or higher in Art I.

## **PHYSICAL EDUCATION**

### **PE**

The physical education class provides students with opportunities to practice different aspects of team-oriented and individual physical activities that foster life-long fitness and good health. The students will learn and expand upon team-building skills, game strategies, fundamentals, equipment manipulation, and the rules of several physical activities.