

# 11<sup>th</sup> Grade Curriculum

## **Human Anatomy & Physiology:**

Students will analyze anatomical structures in relation to their physiological function. They will gain new information and develop reasonable scientific explanations by way of inquiry, observation, measurement, data collection and analysis, use of scientific method, and proper laboratory procedures. Students will also pull meaning from technical texts and use content and contextual vocabulary to communicate their investigations and conclusions clearly. Prerequisite: Biology.

## **Chemistry:**

Chemistry is a required advanced science course that studies the materials that make up the universe and the changes these materials undergo. Topics of instruction include states of matter, atomic structure, nomenclature, stoichiometry, periodicity, chemical bonding, gas laws, equilibrium, acids and bases, and thermodynamics. Laboratory activities are used to enhance knowledge of content and to expand observational, analytical, critical thinking, and problem-solving skills. Prerequisites: Physical Science, Biology, Algebra

## **Algebra III:**

Algebra III is the fourth course in a sequence of required math courses designed to ensure career and college readiness. In this course, students will pull together and apply the accumulation of learning that they have from their previous courses. Students will study real world applications of conics sections. They will apply methods from probability and statistics to draw inferences and conclusions from data. Students will be challenged to develop 21st century skills, such as critical thinking and creative problem solving. Prerequisite Algebra, Geometry, Pre-Calculus

OR

## **Advanced Pre-Calculus:**

This is an accelerated class that will cover all of pre-calculus by the end of the first semester. This will allow students time to learn derivatives, integrals, and limits in preparation for AP Calculus. Prerequisite: Advanced Algebra II/Trigonometry.

## **11th Grade English – American Literature:**

This is a literature-based class that parallels the American History class taught at Flint River Academy. In order to appreciate American Literature, we must first appreciate and understand her history. Therefore, this is a chronological look at the history of American through the writings.

OR

**11th Grade AP Literature:**

Our AP English Literature and Composition course for juniors requires that students read and critically analyze great works of literature from various genres. Students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Students will study a work's structure, style and themes, as well as the use of figurative language, imagery, symbolism and tone. The volume of work required for this class is far more demanding than the standard 11th grade class. Students are required to take the AP exam in early May. This three hour exam is administered on our campus. Acceptance into this class is based on the grade from the 10th grade Advanced English class, PSAT scores, and teacher recommendation.

OR

**English Composition I & II (Dual Enrollment)**

This is an online college level course that will serve for both a high school English credit and a college English credit. Students will demonstrate the ability to recognize and identify appropriate topics for presentation in writing. Students will also synthesize and logically arrange written presentations. Prerequisite: 3.0 Core GPA and attain a score of at least 970 on the critical reading and math portions of the SAT for the University of West GA. Minimum SAT scores of 450 on the critical reading and 440 for math are required for West GA Technical College.

**US History:**

This is a survey class that looks into specific events in U.S. History that have the largest impacts on the way our country is today. The course also focuses on why the student needs this understanding of history. By the end of the course, students should have a working knowledge of their individual civic responsibilities using these events as their foundation.

**Spanish II:**

Spanish II is the second in a series of courses that satisfy the foreign language requirement for entrance to a university. A passing grade in Spanish I is a prerequisite for Spanish II. This course is taught in compliance with the Georgia Department of Education Performance Standards.

**\*\*Advanced Art:**

This class is a continuation of general art with more concentration on acrylic and water color painting and painting with pastels. Students will work at an advanced level of drawing and painting.

**\*\*Choraliers:**

This choir represents the top vocalists at FRA. This course will focus on sight-reading, the St Olaf style of choral tone production, melodic intonation vs. harmonic intonation, and advanced vocal techniques as demonstrated in traditional genres seen throughout the western European history. Students will also learn harmonic theory, Latin musical terms, and world music history. Performing is required. Performances may include: nursing homes, a Christmas concert, church visits, literary competition, and a spring concert. Prerequisite—prior vocal experience.

**\*\*Humanities:**

Humanities is a college preparatory course designed to expose students to the study of human culture. It is world history taught chronologically studying the great civilizations of mankind and mankind's contributions in art, music, literature, architecture, theatre, philosophy, religion, and politics. The course is taught using text, visual aids, video, audio, lectures and field trips. Creative projects and cultural visits are required.

**\*\*Yearbook:**

The yearbook is more than an annual history book that chronicles the life of FRA students; it is the result of the staff's creativity and personality. Students develop skills in leadership, journalism, photography, creative design, layout, and writing. Students are expected to plan the theme and layout, design pages, photograph events, and write/edit/revise the text of each page while under the constraints of a deadline. Meeting deadlines requires staying after school and homework. Since computers are the production tool, the understanding and use of technology is important. Students understand the role and responsibility of each staff member, and they also understand the importance of teamwork. Teacher recommendation is required, and the adviser seeks students who are "go-getters": self-motivated, responsible, able to write well, and able to perform independently and effectively under "deadline stress. "This class is limited to a maximum of 8 students.

**\*\*AP Computer Science Principles:**

This course introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. With a unique focus on creative problem solving and real-world applications, the CodeHS AP Computer Science Principles course gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value, and develop an interest in computer science that will foster further endeavors in the field.

**\*\*Weight Training and Conditioning Education:**

This class is designed for the student who enjoys physical activity and wishes to increase their strength and overall fitness. The student will be expected to understand and practice a certain level of knowledge of the body, kinesiology, exercise physiology and nutrition. Grading is based upon daily dress-out and participation. Prerequisite: 9th grade PE/Health.