

## LANGUAGE ARTS COURSES

### **Language Arts (9A - HLA3093)**

### **Language Arts (9B - HLA3095)**

Introduction to Literature and Composition is a course that concentrates on guided and critical reading of texts from different genres that reflect themes of identity and self-discovery and where the focus of composition is developing clear and purposeful writing. Readings, both classical and contemporary, lend themselves to literary analysis, represent a variety of reading levels and display an assortment of themes and cultures. Close attention is paid to recognizing connections amongst texts, between texts and the world and between texts and the self. While building and honing reading skills, students also develop writing proficiency by creating clear and purposeful essays while adhering to conventions of composition.

### **Language Arts (10A - HLA3097)**

### **Language Arts (10B - HLA3099)**

World Literature and Composition is a course where students read international texts and additional supplemental works including poetry, short stories and nonfiction. The course concentrates on critically reading how the human experience is expressed in literature from around the world. Readings lend themselves to literary analysis, represent a variety of cultures, and showcase an assortment of themes. While honing reading skills, students also develop writing proficiency by crafting increasingly clear and purposeful essays with an emphasis on refinement and style. At the conclusion of the course students recognize recurring themes and patterns in World Literature and how historical and cultural influences are represented in the works.

### **Language Arts (11A - HLA3101)**

### **Language Arts (11B - HLA3103)**

American Literature and Composition is a course that concentrates on critically reading different interpretations of the American experience and the American dream, with an emphasis on increased sophistication through reading, writing and speaking. The course prepares students to grapple with the fundamental notions of American identity as it is expressed in a range of texts and genres. Readings, both classical and contemporary, lend themselves to literary analysis, represent a variety of reading levels and cultures, and showcase an assortment of themes. Close attention is paid to recognizing connections amongst texts, between texts and the world and between texts and the self. While honing reading skills, students also develop writing proficiency by crafting increasingly clear and purposeful essays with an emphasis on refinement and style.

### **Language Arts (12A - HLA3123)**

### **Language Arts (12B - HLA3124)**

Comparative Lit & Comp synthesizes critical reading and writing skills from previous years, focusing on texts that cross a wide range of genres, and embody a high level of thematic and technical complexity and independence. It stresses the continued development of reading, writing, speaking, and listening skills. Students are encouraged to express themselves and respond creatively to literature. Students read a variety of works from different locations and eras. Individual outside reading is central to this course.

## MATH COURSES

### **Math - Algebra (1A - HMA2684)**

### **Math - Algebra (1B - HMA2686)**

This course provides a practical blend of technology-related and paper-and-pencil problem solving tools. Explorations and investigations emphasize symbol sense, algebraic manipulations, and conceptual understandings. Students make sense of important algebraic concepts, learn and practice essential algebraic skills, and apply algebraic thinking. This course allows students to experience algebra using multiple representations (numerical, graphic, symbolic, and verbal). Topics in this course include Graphing, Linear Equations, Functions, Data Analysis, Proportional Reasoning, Probability, Systems of Equations, and Inequalities.

### **Math - Geometry (A - HMA2692)**

### **Math - Geometry (B - HMA2694)**

This course provides an opportunity for students to explore geometric relationships with a wide variety of tools, including paper, compasses, computers, and graphing calculators. Students perform constructions, measure figures, observe patterns, discuss their findings, write their own definitions, and formulate and prove geometric conjectures. Topics include informal and formal proof, properties of triangles, polygons, and circles, transformations and tessellations, area and volume, the Pythagorean Theorem, congruence, and similarity.

### **Math - Algebra (2A - HMA2688)**

### **Math - Algebra (2B - HMA2690)**

Provides an opportunity for students to deepen their understanding of challenging topics in mathematics including recursion, transformations, matrices, series, and applications of statistics. This course will focus on functions including exponential, power, logarithmic, trigonometric, rational, and polynomial functions. The text provides a balanced mix of data-analysis and pure-algebra techniques. Algebraic techniques equip students with multiple problem-solving strategies and prepare them for high-level courses that are algebra intensive. They learn to solve problems with and without a calculator. This is the end of a three-year sequence to meet minimum requirements for admission to four-year universities.

## **SOCIAL STUDIES COURSES**

### **Social Studies - (W History 1 - HSS5852)**

### **Social Studies - (W History 2 - HSS5853)**

World History 1 & 2 is a course of study that focuses on the cultures and regions of Africa, the Middle East, and Asia. While geography and history are fundamental to the study of each region, emphasis is also placed on the regions' contemporary cultural, political, and economic characteristics. By studying major cultural areas, students should better understand the current and changing conditions in the world as well as relationship of the United States to these regions. Skill development includes working with historical texts and maps, interpreting data in various formats, and writing historical narrative.

### **Social Studies - (W History 3 - HSS5854)**

World History 3 is a semester course that examines the 20th Century and the move away from Colonialism to a more inter-connected world. Students will explore political changes around the world as well as modern conflicts. Attention will be given to causes of both World Wars as well as non-Western nations.

### **Social Studies - (US History 11A - HSS5856)**

### **Social Studies - (US History 11B - HSS5857)**

This course considers the ideas, issues and conflicts that have shaped this nation and helps students develop a perspective that links the present with the past. Beginning with colonial America prior to the Revolution, the course follows a broad chronological framework that includes the Revolution and Constitution, slavery, national expansion, the Civil War, and industrialization. Attention is given to working with primary and secondary sources and helping students understand the limits of historical evidence. Students will examine neo-colonialism and the emergence of the U.S. as a global power. Topics include WWI, the Great Depression, WWII, the Civil Rights Movement, and the Vietnam War. This course is intended to help students think about the relationship of past and present, understand current situations, and to think critically about the rights and roles of citizens in a democracy.

### **Social Studies - (WA State History - HSS1052)**

Students will review the founding events of the United States. The focus of the course will be geography and post-civil war American history along with Washington State history

### **Social Studies - (American Gov - HSS1742)**

American Government is a class designed to acquaint students with the origins, concepts, organizations, and policies of the United States government and political system. To increase comprehension, students will read and analyze relevant primary and secondary source documents and incorporate these ideas into the assigned material.

## SCIENCE COURSES

### **BIOLOGY A (HSC1258)**

In this course, Biology A: Tracing Matter and Energy, students will study the formation of carbon-based molecules, organization of multicellular organisms, homeostasis, mitosis, cellular respiration, aerobic and anaerobic conditions, ecosystems, photosynthesis, impacts of human activity, and energy and mineral resources. Students will refine their science and engineering skills within the context of an engaging storyline to explain a phenomenon.

### **BIOLOGY B (HSC1259)**

In this course, Biology B: Tracing Information through Generations, students will study mitosis, transcription and translation, homeostasis, inheritance, genetic variation, population genetics, group behavior and survival, evolution, natural selection, adaptation, Earth's formation, Earth's systems and life on Earth, carrying capacity, biodiversity, impacts of human activity. Students will refine their science and engineering skills within the context of an engaging storyline to explain a phenomenon.

### **CHEMISTRY A (HSC3111)**

In this course, Chemistry A: Origin of the Elements and Material Science, students will study fission, fusion, and radioactive decay, properties of elements, simple chemical reactions, structure of substances and forces between particles, designing materials, life span of the sun, and the way stars produce elements. Students will refine their science and engineering skills within the context of an engaging storyline to explain a phenomenon.

### **CHEMISTRY B (HSC3211)**

Prerequisite: HSC3111 Chemistry A. In this course, Chemistry B: Reactions, Energy, and Environmental Chemistry, students will study energy flow in a chemical reaction, factors affecting reaction rate, conditions affecting production of a reaction, mass conservation, second law of thermodynamics, changes to earth's systems, effect of energy flow on climate, properties of water, carbon cycling, climate change, and impacts of human activity. Students will refine their science and engineering skills within the context of an engaging storyline to explain a phenomenon.

### **PHYSICS A (HSC3112)**

In this course, Physics A: Wave Properties and Technology, students will study Newton's Law of Gravitation, Coulomb's Law, speed of waves, electromagnetic radiation and its effects on matter, technological devices, Big Bang theory, digital transmission and storage of information. Students will refine their science and engineering skills within the context of an engaging storyline to explain a phenomenon.

### **PHYSICS B (HSC3212)**

Prerequisite: HSC3112 Physics A. In this course, Physics B: Mechanics in the Earth Solar System, students will study energy changes and flow, energy associated with motion and relative position, conversion between forms of energy, formation of continental and ocean-floor features, cycling of matter, Newton's Second Law of motion, conservation of momentum, collisions, the relationship between electric currents and magnetic fields, and motion of orbiting objects. Students will refine their science and engineering skills within the context of an engaging storyline to explain a phenomenon.