

# HERITAGE ACADEMY

(revised 4/1/2023)

## CURRICULUM COURSE GUIDE

Heritage Academy provides an exceptional North American education to students from around the world. Heritage's 6-12 curriculum challenges students to develop the attitudes, skills, knowledge and understanding to become a successful and responsible global citizen.

The counselor assists students in developing academic programs to meet academic and college/career goals and works with students and families to select courses of optimum value to meet these goals. Advice from parents and teachers and a preliminary look at college entrance requirements is of essential importance. Input from training partners and college athletic departments also inform post-graduate decisions.

The purpose of this **curriculum course guide** is to acquaint you with the courses available at Heritage Academy and to enable you to wisely plan a program of study. Before selecting a class, learn its objectives, requirements, prerequisites (if any) and credit value. This guide will help you create your personal Four-Year Plan. The course descriptions should help you to answer these important questions:

- *Are the courses I am choosing appropriate to my interests, needs, scheduling commitments, and abilities?*
- *Will the courses I choose allow me to fulfill graduation and NCAA requirements?*
- *Will the courses I choose qualify me for admission to universities of my choice?*

The advice of your counselor and your parents will be of great importance! Consider your choice of subjects carefully in light of your long-term and short-term educational goals.

Heritage Academy courses are approved by the NCAA and SCISA/COGNIA. The 6-12 program incorporates the essential skills of 21<sup>st</sup> century education while reinforcing skills learned previously. At all grade levels skills are introduced, reinforced, or mastered across each discipline. Foundational courses of the lower grades are further supported with opportunities for advanced coursework at upper grade levels.

**Common to all subject areas are the following learner skills outcomes:**

*reading comprehension, written and oral discourse and fluency, numerical literacy, listening, inductive and deductive reasoning, advocacy of a position, supporting ideas with evidence, oral presentation, group discussion, note-taking, examination and research, collaboration, creative problem solving, scientific inquiry, group problem solving, independent study, ethical responsibility, and demonstration of effective technology and computer skills, self-reliance, understanding of others' views, time management, and personal organization.*

The counselor organizes grade level and individual meetings to support students in the development and review of their four-year plans. Additionally, students and parents are encouraged to visit the counselor to become familiar with the services offered. The counselor has information on colleges in the U.S.A. and other countries. The Director, of Student Services Office also has recommended websites and various books for preparing for college entrance tests, selection of universities, and career information.

**\*NOTE: The Curriculum Course Guide provides information for course possibilities. In all cases, for a course to run, Heritage Academy must be in a position to provide a qualified instructor and there must be a sufficient number of interested students.**

**An asterisk next to the course name denotes NCAA-approved\***

## **DRAWING I**

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Students begin the study of art by exploring the Elements and Principles of Design. Major emphasis of Beginning Art is on personal experimentation with varied artistic mediums. Drawing is introduced and through practice, students demonstrate an understanding of good drawing through weekly homework. Subject matter exploration through various mediums consists of still life, landscapes floral, portraiture and abstract. Design construction will be an integral part of beginning art. Through experimentation, students find personal artistic growth and cultivate imagination as an artist and artistic enthusiast.

## **DRAWING II**

*One Semester (Block); one credit*

*Homework: Average*

Drawing II is a continuation of Drawing I

## **PAINTING 1**

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Painting is a visual art course where students will explore and experience a variety of painting techniques, media, and historical approaches to art. Painting is a problem-solving course dealing with form, color, line, and texture (figurative and abstract). Through the use of the world outside the classroom, models, drawings, photographs, and imagination, students interpret and express the painter's world in a variety of materials including acrylic and tempera paint, watercolor, ink, paper and canvas as well as a variety of experimental media.

## **PAINTING II**

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Painting II is a continuation of Painting I.

## **GRAPHIC ARTS / MEDIA ARTS**

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Graphic Design is a course that explores graphic communication through the understanding of the elements and principles of design; as well as the design process, from idea development through the final execution of a document.

## **ENGLISH LANGUAGE ARTS 6 (ELA)**

*One year (Block)*

*Degree of Difficulty: Regular*

*Homework: Average*

A typical course of study in language arts for sixth grade includes components of reading, writing, grammar, spelling, and vocabulary. Students will read a variety of genres including fiction and non-fiction; biographies; poetry; and plays. Students in Grade 6 English Language Arts practice the writing processes all year with an emphasis on grammar, usage, mechanics, and spelling. Students write in a variety of modes including narrative, creative, expository, research reports, journal-writing, and literary response. Grade 6 reading combines a mix of classic and young adult literature. Collaborating in small groups, students engage in literary discussions, oral reviews, partner projects, and creative expression. A strong emphasis is placed on developing language arts skills that will prepare students for high school.

## **ENGLISH LANGUAGE ARTS 7 (ELA)**

*One Semester (Block)*

*Degree of Difficulty: Regular*

*Homework: Average*

English Language Arts 7 (ELA) incorporates the teaching and learning of reading, writing, speaking, listening, and viewing. Integration of language arts occurs in multiple ways. First, curriculum, instruction, and assessment reflect the integration of listening, speaking, viewing, reading, and writing. Students in Grade 7 English Language Arts practice the writing processes all year with an emphasis on grammar, usage, mechanics, and spelling. Students write in a variety of modes including narrative, creative, expository, research reports, journal-writing, and literary response. Grade 6 reading combines a mix of classic and young adult literature. Collaborating in small groups, students engage in literary discussions, oral reviews, partner projects, and creative expression. A strong emphasis is placed on developing language arts skills that will prepare students for high school.

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## ENGLISH LANGUAGE ARTS 8

*One Semester (Block)*

*Degree of Difficulty: Regular*

*Homework: Average*

Students in Grade 8 English Language Arts practice the writing processes all year with an emphasis on grammar, usage, mechanics, and spelling. Students write in a variety of modes including narrative, creative, expository, research reports, journal-writing, and literary response. Grade 8 reading combines a mix of classic and young adult literature. Collaborating in small groups, students engage in literary discussions, oral reviews, partner projects, and creative expression. A strong emphasis is placed on developing language arts skills that will prepare students for high school.

## LITERARY ANALYSIS & COMPOSITION \*

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

In this high school survey literature course, students work on the writing process while refining their grammar, usage, and proofreading skills. Vocabulary development, reading comprehension, and journal-writing are essential components of the course. Students read a variety of western canon. Collaborating in small groups, students engage in literary discussions, oral reviews, and creative expression. To strengthen vocabulary and speaking skills, students prepare for vocabulary quizzes and oral interpretations on selected topics.

(Textbook: *Literature 9* Prentice Hall plus supplemental novels and vocabulary texts)

## LITERARY ANALYSIS & COMPOSITION HONORS\*

*One semester (Block); one credit*

*Degree of Difficulty: Above Average*

*Homework: Above Average*

**Honors students receive differentiated assessments, products, process, and content.** In this high school survey literature course, students work on the writing process while refining their grammar, usage, and proofreading skills. Vocabulary development, reading comprehension, and journal-writing are essential components of the course. Students read a variety of western canon. Collaborating in small groups, students engage in literary discussions, oral reviews, and creative expression. To strengthen vocabulary and speaking skills, students prepare for vocabulary quizzes and oral interpretations on selected topics.

(Textbook: *Literature 9* Prentice Hall plus supplemental novels and vocabulary text)

## AMERICAN LITERATURE\*

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

In American Literature, students examine significant works written in North America from the 17th century to the present, including the periods of Classicism (Colonial to Revolutionary period), Romanticism, Transcendentalism, and Modern Realism. Students identify the shared heritage of writers with regard to their use of plot, characterization, setting, theme, imagery, and symbolism. In addition to essays and a writing journal, students write an expository research paper in MLA style. To strengthen vocabulary and speaking skills, students prepare for vocabulary quizzes and oral interpretations based on the literature.

(Textbook: *The American Experience* Prentice Hall + supplemental novels and vocabulary text)

## AMERICAN LITERATURE HONORS\*

*One semester (Block); one credit*

*Degree of Difficulty: Above Average*

*Homework: Above Average*

**Honors students receive differentiated assessments, products, process, and content.** In American Literature, students examine significant works written in North America from the 17th century to the present, including the periods of Classicism (Colonial to Revolutionary period), Romanticism, Transcendentalism, and Modern Realism. Students read and identify the shared heritage of writers with regard to their use of plot, characterization, setting, theme, imagery, and symbolism. In addition to essays and a writing journal, students write an expository research paper in MLA style. To strengthen vocabulary and speaking skills, students prepare for vocabulary quizzes and oral interpretations based on the literature.

(Textbook: *The American Experience* Prentice Hall + supplemental novels and vocabulary text)

## BRITISH LITERATURE\*

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

This course examines significant British Literature written from the fifth century to the present including the Medieval Period, the Renaissance Period, the Romantic Period, the Victorian Period, and the Modern Period. Students read drama, novels, prose and poetry and participate in a variety of class discussions, group activities, written responses and oral presentations. In addition to essays and a writing response journal, students write an expository research paper in MLA style

including thesis statement, developmental paragraphs, paraphrasing, researched quotations, parenthetical documentation and a list of works cited. Daily emphasis on vocabulary and writing prepares students for college writing and college admissions tests.

(Textbook: *The British Tradition* Prentice Hall + supplemental novels and vocabulary text)

### **BRITISH LITERATURE HONORS\***

*One semester (Block): one credit*

*Degree of Difficulty: Above Average*

*Homework: Above Average*

**Honors students receive differentiated assessments, products, process, and content.** This course examines significant British Literature written from the fifth century to the present including the Medieval Period, the Renaissance Period, the Romantic Period, the Victorian Period, and the Modern Period. Students read drama, novels, prose and poetry and participate in a variety of class discussions, group activities, written responses and oral presentations. In addition to essays and a writing response journal, students write an expository research paper in MLA style including thesis statement, developmental paragraphs, paraphrasing, researched quotations, parenthetical documentation and a list of works cited. Daily emphasis on vocabulary and writing prepares students for college writing and college admissions tests.

(Textbook: *The British Tradition* Prentice Hall + supplemental novels and vocabulary text)

### **WORLD LITERATURE \***

*One semester (Block): one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

This course examines significant traditional and contemporary World literature. Students read drama, novels, prose and poetry and participate in a variety of class discussions, group activities, written responses and oral presentations. In addition to essays and a writing response journal, students write an expository research paper in MLA style including thesis statement, developmental paragraphs, paraphrasing, researched quotations, parenthetical documentation and a list of works cited. Daily emphasis on vocabulary and writing prepares students for college writing and admissions tests.

(Textbook: *World Literature* Glencoe + supplemental novels and vocabulary text)

### **WORLD LITERATURE HONORS\***

*One semester (Block): one credit*

*Degree of Difficulty: Above Average*

*Homework: Above Average*

Honors students receive differentiated assessments, products, process, and content. This course examines significant traditional and contemporary World literature. Students read drama, novels, prose and poetry and participate in a variety of class discussions, group activities, written responses and oral presentations. In addition to essays and a writing response journal, students write an expository research paper in MLA style including thesis statement, developmental paragraphs, paraphrasing, researched quotations, parenthetical documentation and a list of works cited. Daily emphasis on vocabulary and writing prepares students for college writing and college admissions tests.

(Textbook: *World Literature* Glencoe + supplemental novels and vocabulary text)

### **AP ENGLISH LITERATURE & COMPOSITION\***

*One semester; one credit*

*Degree of Difficulty: Advanced*

*Prerequisite: British Literature*

*Homework: Heavy*

The goal of this course is to help students acquire the ability to read using the cloze method, understand the conventions of literary discourse, develop an appreciation of literature, and write accurately and insightfully about it. This AP course includes college level work, including adult reading materials and high expectations related to effort and achievement. There is independent reading outside of the regular class assignments. Students are committed to doing their very best work in this class as they prepare to take the AP Exam in May. Students generate pieces of writing that meet the demands of the Advanced Placement Exam in English Literature and Composition. They read texts that represent both classical and contemporary literature in the genres of drama, fiction, and poetry. They develop their ability to present discourse and to discuss important ideas based upon their reading of challenging literature. Students sit for the AP exam in May.

(Textbook: *Reading and Writing for Literature* Houghton Mifflin + supplemental novels and vocabulary text)

### **AP ENGLISH LANGUAGE AND COMPOSITION**

*One semester; one credit*

*Degree of Difficulty: Advanced*

*Prerequisite: British Literature*

*Homework: Heavy*

AP English Language and Composition is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situation, claims and evidence, reasoning and organization, and style.

## **JOURNALISM I \***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Prerequisite: none Homework: Average*

This course examines the historical and legal aspects of journalism, staff organization, layout, writing basic news stories, interviewing, and editing. Students study the text, *Journalism Today*, and utilize the internet for research projects, are responsible to meet news deadlines, and share in the class responsibility to produce the *Heritage Voice*.

(Textbook: *High School Journalism* McGraw Hill+ newspapers)

## **CREATIVE WRITING**

*One Semester (Block)*

*Degree of Difficulty: Regular*

*Homework: Average*

Students read a variety of classic literature and amateur fiction and study writing styles and techniques to improve their fiction writing. Students study the elements of fiction: plot, exposition, characterization, pacing, conflict, climax, and resolution.

## **THEATER ARTS**

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

This course introduces and explores theater from page to stage as a live performing art. Topics include the relationship between theater and society (historical and contemporary), dramatic structure, theatrical representation, and the crafts of theater artists such as directors, designers,

## **COMPOSITION / ADVANCED COMPOSITION \***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average/Above Average (Honors)*

This course is designed for students to learn the art of writing in a variety of forms. Objectives in this course include: understanding and practicing the writing process and writing workshop; practicing and publishing expository, expressive, persuasive, and analytical documents; practicing and publishing documents of observation, recall, investigation, and reflection; creation and maintenance of a writer's portfolio; practicing correct mechanics and usage; and using mature syntax in writing.

(Textbook: *Elements of Writing* Warriner)

## **SPEECH COMMUNICATION \***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

This course offers practical experience in a variety of forms of public speaking with an emphasis on argumentation and persuasion to improve the student's ability to transmit a well-researched, cogent, thoughtful message adapted to a particular audience. Emphasis is also placed on the study of effective aural communication. Students engage in critical thinking and rhetorical criticism exercises.

(Textbook: *Speech* Glencoe + recordings, primary and supplemental resources)

## **MANDARIN 1\***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Mandarin I introduces the four major skills of foreign language learning: listening, speaking, reading, and writing in a communicative approach. In addition, the culture of China including major cities, history, and traditions are explored. Students read and interpret a variety of written passages and a comprehensive selection of characters and sentence patterns.

(Textbook: *Discovering Chinese Pro*)

## **MANDARIN 2 \***

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Prerequisite: Mandarin 1*

*Homework: Average*

Mandarin 2 continues to emphasize the four major skills of foreign language learning: listening, speaking, reading, and writing in a communicative approach. (Textbook: *Discovering Chinese Pro*)

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### **MANDARIN 3**

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Prerequisite: Mandarin II*

*Homework: Average*

Mandarin 3 continues to emphasize the four major skills of foreign language learning: listening, speaking, reading, and writing in a communicative approach. (Textbook: *Discovering Chines Pro*)

### **MANDARIN 4**

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Prerequisite: Mandarin II*

*Homework: Average*

Mandarin 4 continues to emphasize the four major skills of foreign language learning: listening, speaking, reading, and writing in a communicative approach. (Textbook: *Discovering Chines Pro*)

### **AMERICAN SIGN LANGUAGE**

*One Semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

American Sign Language introduces students to the language and culture of Deaf people in the United States. The course will focus on specific language and cultural behaviors, as well as introduce students to the grammar of ASL.

### **AMERICAN SIGN LANGUAGE II**

*One Semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Continues the study of American Sign Language (ASL) designed to increase the students proficiency in intermediate ASL communication skills with a continued emphasis on comprehension skills, conversational skills, cultural awareness, grammatical features and vocabulary development.

### **AMERICAN SIGN LANGUAGE III**

*One Semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Continues the study of American Sign Language (ASL) whereby students develop expressive and receptive language skills with an increased emphasis on complex vocabulary, grammatical structures, and cultural awareness.

### **SPANISH I \***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Spanish I introduces the four major skills of foreign language learning: listening, speaking, reading, and writing in a communicative approach. In addition, the culture of Spain including major cities, history, and traditions are explored. Grammar focuses on verb formation in the present and past tenses, agreement of nouns and adjectives, introduction to object pronouns, forming questions, and appropriate word order. Students read and interpret a variety of written passages and learn to paraphrase in the target language.  
(Textbook: *Avancemos Level 1* Houghton Mifflin + primary and supplemental resources)

### **SPANISH 2 \***

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Prerequisite: Spanish 1*

*Homework: Average*

Spanish 2 continues to emphasize the four major skills of foreign language learning: listening, speaking, reading, and writing in a communicative approach. In addition to Spain, the countries and cultures of Mexico, Central America, and South America are explored. Grammar focuses on increasingly difficult structures including preterit vs. imperfect, future, conditional, perfect tenses, double object pronouns and comparative forms.  
(Textbook: *Avancemos Level 2* Houghton Mifflin + primary and supplemental resources)

### **SPANISH 2 HONORS\***

*One semester (Block); one credit*  
*Degree of Difficulty: Above Average*  
*Prerequisite: Spanish 1*  
*Homework: Average to Above*

**Honors students receive differentiated assessments, products, process, and content.** Spanish 2 continues to emphasize the four major skills of foreign language learning: listening, speaking, reading, and writing in a communicative approach. In addition to Spain, the countries and cultures of Mexico, Central America, and South America are explored. Grammar focuses on increasingly difficult structures including preterit vs. imperfect, future, conditional, perfect tenses, double object pronouns and comparative forms.

(Textbook: *Avancemos Level 2* Houghton Mifflin + primary and supplemental resources)

### **SPANISH 3 \***

*One semester (Block); one credit*  
*Degree of Difficulty: Regular*  
*Prerequisite: Spanish 2*  
*Homework: Average*

Spanish 3 is designed for those who already have a grasp on the basic grammatical concepts, oral comprehension and written comprehension in Spanish. The goal of this course is to enable students to improve the four language skills: reading, listening, speaking, and writing. In addition, cultural insights of Latino America and Spain are explored.

(Textbook: *Avancemos Level 3* Houghton Mifflin + primary and supplemental resources)

### **SPANISH 3 HONORS\***

*One semester (Block); one credit*  
*Degree of Difficulty: Above Average*  
*Prerequisite: Spanish 2*  
*Homework: Average to Above*

**Honors students receive differentiated assessments, products, process, and content.** Spanish 3 is designed for those who already have a grasp on the basic grammatical concepts, oral comprehension and written comprehension in Spanish. The goal of the course is to enable students to improve the four language skills: reading, listening, speaking, and writing. Cultural insights of Latino America and Spain are explored.

(Textbook: *Avancemos Level 3* Houghton Mifflin + supplements and primary and supplemental resources)

### **ADVANCED SPANISH 4 \***

*One semester (Block); one credit*  
*Degree of Difficulty: Advanced*  
*Prerequisite: Spanish 3*  
*Homework: Above Average*

Spanish 4 (Advanced Grammar and Culture) encompasses a study of advanced grammar, composition, and communication. At this level, effective communication (written and oral) continues to be the ultimate goal. Short stories, poetry, essays and a novel are used as an introduction to Hispanic literature. Students write descriptive essays and opinion papers. Students study the effect of the history of Spain and the Hispanic world.

(Textbook: *Avancemos Level 4* Houghton Mifflin + primary and supplemental resources)

### **AP SPANISH LANGUAGE AND CULTURE\***

*One semester (Block); one credit*  
*Degree of Difficulty: Advanced*  
*Prerequisite: Spanish 4*  
*Homework: Average to heavy*

At the core of the AP Spanish Language and Culture course are six groups of *learning objectives*. These outline expectations of student abilities in the following areas: Spoken Interpersonal Communication; Written Interpersonal Communication; Audio, Visual, and Audiovisual Interpretive Communication; Written and Print Interpretive Communication; Spoken Presentational Communication; and Written Presentational Communication. When communicating, students in the AP Spanish Language and Culture course demonstrate an understanding of the culture(s); incorporate interdisciplinary connections; make comparisons between the native language and the target language and between cultures; and use the target language in real-life settings. Students sit for the AP exam in May.

(Textbook: *Galeria de Arte y Vida* Glencoe + primary and supplemental resources)

### **SOCIAL STUDIES 6/7/8**

*One semester: (Block)*  
*Degree of Difficulty: Regular*  
*Homework: Average*

World Geography, US History, Civics, and World Civilizations are survey courses that rotate for grade 7/8 each year. Geography is the study of eastern and western hemisphere physical geography with an emphasis on the human geography of

culture regions around the world. Students utilize research skills and a variety of forms of presenting information via graphs, charts, technology.

This course prepares student for citizenship in today's world by studying the government, civics, political system, and economics of the USA from the Colonies to modern foreign affairs World Civilizations centers on the story of human beings as they developed early civilizations. Included in the course is the study of the spread of cultures around the world up to the Age of Exploration. Students explore early man, Mesopotamia, Egypt, Ancient China, Greece, Rome, the Middle Ages, and the Crusades. Included will be the development of major world religions. American History centers on the study of the American republic from pre-revolution through post- Civil War. with the study of the first inhabitants of the Americas who crossed the Bering Strait from Asia and follows the settlement of North America from the Age of Exploration through the period of Reconstruction. Students learn foundations of U.S. constitutional government. Emphasis is on cause and effect in the course of history and linkages to today's world.

#### **WORLD HISTORY \***

*One semester (Block): one credit*

*Degree of Difficulty: Average*

*Homework: Average*

This course focuses on the following: The First Humans, Prehistory, Western Asia and Egypt, India and China, Ancient Greece, Rome and the Rise of Christianity, the World of Islam, Early African Civilizations and Europe in the Middle Ages. Emphasis will be placed on cause and effect in the course of history and linkages to the world today.(Textbook: *World History and Geography* McGraw Hill + primary and supplemental resources)

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#### **WORLD HISTORY HONORS\***

*One semester (Block): one credit*

*Degree of Difficulty: Above Average*

*Homework: Average to Above*

**Honors students receive differentiated assessments, products, process, and content.** This course focuses on the following: The First Humans, Prehistory, Western Asia and Egypt, India and China, Ancient Greece, Rome and the Rise of Christianity, the World of Islam, Early African Civilizations and Europe in the Middle Ages. Emphasis will be placed on cause and effect in the course of history and linkages to the world today. (Textbook: *World History and Geography* McGraw Hill + primary and supplemental resources)

#### **U.S. HISTORY\***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

The course focuses on Discovery and Settlement of the New World 1492-1650, America and the British Empire 1650-1754, Colonial Society in the Mid-Eighteenth Century, Road to Revolution 1775-1783, Constitution and the New Republic 1776-1800, The Age of Jefferson 1800-1816, Nationalism and Economic Expansion, Sectionalism, Age of Jackson 1828-1848, Territorial Expansion and Sectional Crisis, Creating an American culture the 1850's Decade of Crisis, the Civil War and Reconstruction to 1877, The Progressive Era, America as a World Power, WW I, Roaring 20s, The Great Depression, The New Deal, World War II, Cold War, Great Society, Civil Rights, Vietnam War, Nixon Administration and Conservative Policies under Reagan. Students learn the foundations of U.S. constitutional government. Emphasis is on cause and effect in the course of history related to today's world.

(Textbook: *United States History and Geography* McGraw Hill + primary and supplemental resources)

#### **U.S. HISTORY HONORS\***

*One semester (Block); one credit*

*Degree of Difficulty: Above Average*

*Homework: Average to Above*

**Honors students receive differentiated assessments, products, process, and content.** The course focuses on Discovery and Settlement of the New World 1492-1650, America and the British Empire 1650-1754, Colonial Society in the Mid-Eighteenth Century, Road to Revolution 1775-1783, Constitution and the New Republic 1776-1800, The Age of Jefferson 1800-1816, Nationalism and Economic Expansion, Sectionalism, Age of Jackson 1828-1848, Territorial Expansion and Sectional Crisis, Creating an American culture the 1850's Decade of Crisis, the Civil War and Reconstruction to 1877, The Progressive Era, America as a World Power, WW I, Roaring 20s, The Great Depression, The New Deal, World War II, Cold War, Great Society, Civil Rights, Vietnam War, Nixon Administration and Conservative Policies under Reagan. Students learn the foundations of U.S. constitutional government. Emphasis is on cause and effect in the course of history related to today's world.

(Textbook: *United States History and Geography* McGraw Hill + primary and supplemental resources)

#### **AP UNITED STATES HISTORY\***

*One year: one credit*

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*Degree of difficulty: Advanced*

*Homework: Heavy*

AP American History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials of American History. The course prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college survey courses. In this pursuit, the acquisition of factual knowledge is the beginning point of the process, not the end. Students learn to interpret and evaluate the relative significance of primary and secondary source material and to present their evidence and conclusions clearly and persuasively in an essay format. Students sit for the May AP Exam.

(Textbook: *The American Pageant AP* Cengage + primary and supplemental resources)

### **U.S. GOVERNMENT/ECONOMICS \***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

The course focuses on the following: How our government came to be organized; the background and political philosophies of our founding fathers; the Bill of Rights; the office and duties of the Chief Executive; and the organization of Congress and the landmark Supreme Court cases and their significance today. In Economics, the course focuses on The Basis of Economics; Capitalism and the Market Economy; Demand and Supply; Determining Prices; Measuring Economics Performance; Inflation and Unemployment; Money and Banking; The Federal reserve system and Monetary Policy and Taxes; and National Debt and Fiscal Policy.

(Textbooks: *US Government—Our Democracy* McGraw Hill / *Economics* Prentice Hall + supplemental resources)

### **AP U.S. GOVERNMENT & POLITICS \***

*One semester: one credit*

*Degree of difficulty: Advanced*

*Homework: Heavy*

The AP Government & Politics: United States course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. Students study constitutional underpinnings of US government; political beliefs and behaviors; political parties, interest groups, and mass media; institutions of national government: Congress; the Presidency; the Bureaucracy; the Federal Courts; public policy; civil rights and civil liberties. Students sit for the AP exam in May.

(Textbook: *AP Government Institutions and Policies* Cengage + primary and supplemental resources)

### **PSYCHOLOGY\***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Psychology is an introduction to basic principles and concepts of psychology. Special attention is given to provide an exposure to a wide variety of human behaviors, which may include but are not limited to: sensation, perception, learning, memory, thinking, development, personality, and disorders. Students take a field trip to a memory center to interact and make meaning of the core elements of the course.

(Textbook: *Psychology—Principle in Practice* Holt McDougal + primary and supplemental resources)

### **AP PSYCHOLOGY\***

*One year: one credit*

*Degree of difficulty: Advanced*

*Homework: Above average*

AP Psychology is a full-year course designed to provide students with a broad overview of the diverse field of psychology and prepare students for the AP Psychology Exam given in May. The purpose of AP Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. To achieve these goals, most of class time will be devoted to lectures, discussions, and extensive review sessions. However, time will also be allocated for demonstrations, experiments, and class activities; the content of which may or may not be covered in the text.

(Textbook: *Myer's Psychology for the AP Course* BFW Publishers + primary and supplemental resources)

### **SOCIOLOGY \***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Sociology is the scientific study of society and human behavior. During the semester, students study these topics: the sociological perspective, culture, socialization, social groups, crime & deviance, sex & gender, race and ethnicity, social

structures, social class, the elderly, family and marriage, medicine, and social change. This course is a basic introduction to the field of sociology.

(Textbook: *Sociology and You* McGraw Hill + primary and supplemental resources)

### **STREET LAW \***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

This practical, inquiry-based course is designed to provide students with the ability to analyze, evaluate, and resolve legal disputes. It is a course in democracy education and will also touch upon current law-related public issues including intellectual property, marriage equality, immigration, terrorism, and technology. Students will engage in mock trials, case studies, role-plays, small-group and other class activities. Community resource people like police, lawyers, judges, consumer advocates, etc. will be utilized as guest speakers.

(Textbook: *Street Law* Mc Graw Hill + primary and supplemental resources)

### **WORLD RELIGIONS\***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

In World Religions, the student will study and compare the major religions of the world. The course will take a historic and a contemporary approach to understanding the fundamental likes and differences among religions and how they are practiced. The student will learn about the relationship between religion and the people of a region. Essential questions of what religion is, what does it mean to be human and interact with the sacred, and how does the sacred become community. Each religion is studied through the same set of questions, and students will be able to develop personal critical thinking skills through comparison, contrast, analysis, and evaluation.

(Textbook: *THINK World Religions* Pearson + primary and supplemental resources)

### **ANIMAL SCIENCE**

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Students' experiences will involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. For example, students will acquire skills in meeting the nutritional needs of animals while developing balanced, economical rations.

### **INTEGRATED SCIENCE 7/8**

*One semester (60 min.)*

*Degree of Difficulty: Average*

*Homework: Average*

The goal of this course is to further the students' knowledge in science as begun in Integrated Science 7. Laboratory investigation will increase in difficulty with the student expected to perform more complicated experiments, develop more complex thinking strategies and communicate more effectively. Age-appropriate tools, techniques, diagrams and charts will be required. Topics of study include the structure, function and processes of the cell; cell reproduction and heredity; multi-cellular organization and differentiation; systemic human anatomy and physiology; ecology: populations and ecosystems; and states, properties, classification and changes of matter; life science; earth science; interactions of the human systems; physical science; and an introduction to chemistry.

(Textbook: *iScience* Glencoe + primary and supplemental resources)

### **STEM\***

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Homework: Average*

*Engineering the Future: Science, Technology, and the Design Process* is a physical science course designed to give students a strong foundation in science and technology and engineering. This is a project-based problem-solving class in which students learn first-hand about systems analysis, engineering drawing, the design process, the manufacturing process, structures and loads, materials and forces, energy efficiency, buoyancy, robotics and hydraulics, rocketry, renewable resources, heat engines, geothermal power, nuclear power, computer systems, optical fibers, electromagnetic spectrum, electricity, series and parallel circuits, solar and wind power.

(Textbook: *Engineering for the Future* It's About Time Publishers + primary and supplemental resources)

### **BIOLOGY \***

*One semester (Block); one credit*

*Degree of Difficult: Average*

*Homework: Average*

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This course introduces students to the study of living organisms including microscopic and dissection work. Topics include an introduction to chemistry and biochemistry; a comprehensive study of the structure and function of the cell; Photosynthesis and cellular respiration; cellular reproduction; genetics; and evolution. Weekly laboratory assignments include the writing of formal laboratory reports. This course prepares students for college biology or AP Biology. (Textbook: *Modern Biology* Houghton Mifflin + primary and supplemental resources)

### **BIOLOGY HONORS\***

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Homework: Average*

**Honors students receive differentiated assessments, products, process, and content.** This course introduces students to the study of living organisms including microscopic and dissection work. Topics include an introduction to chemistry and biochemistry; a comprehensive study of the structure and function of the cell; Photosynthesis and cellular respiration; cellular reproduction; genetics; and evolution. Weekly laboratory assignments include the writing of formal laboratory reports. This course prepares students for college biology or AP Biology.

(Textbook: *Modern Biology* Houghton Mifflin + primary and supplemental resources)

### **MARINE BIOLOGY\***

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Prerequisites: Biology*

*Homework: Average*

This introductory survey course in marine biology covers marine environments, algae, plants, invertebrates, fish, reptiles, birds, mammals, tidal zones, salt marshes, estuaries, rocky shores, and open ocean. Students participate in several field experiences. Lab experiences focus on higher level thinking skills. This course is not designed as a substitute for first year biology.

(Textbook: *Life on an Ocean Planet* Current + primary and supplemental resources)

### **AP BIOLOGY\***

*One semester; one credit*

*Degree of difficulty: Advanced*

*Homework: Above average*

The main goals of AP Biology are to help students develop a conceptual framework for modern biology and an appreciation of science as a process. Primary emphasis in an AP Biology course is on developing an understanding of concepts rather than on memorizing terms and technical details. Essential to this conceptual understanding are a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns. Students sit for the AP exam in May.

(Textbook: *AP Biology in Focus* Pearson + primary and supplemental resources)

### **INTEGRATED CHEMISTRY-PHYSICS\***

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Homework: Average*

This course explores the nature of force, motion, energy, and matter. Course topics include kinematics, force, momentum, waves, atoms, the periodic table, molecular bonding, chemical reactivity, electricity, and nuclear energy. The course provides students with opportunities to learn and practice scientific skills within the context of relevant scientific questions.

### **CHEMISTRY \***

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Homework: Average*

This course introduces students to the composition of substances at the atomic and molecular level. Basic problem-solving techniques, metric conversions, scientific notation are also studied. Students become familiar with the mole and stoichiometry and the composition and states of matter at the atomic and molecular level, the naming of formulas, and chemical reactions. The course includes hydrocarbons, gas laws and nuclear chemistry. Weekly laboratory assignments include the writing of formal laboratory reports. A course requiring higher level thinking abilities forces students to solve complicated word problems. Work is cumulative with the material of the succeeding chapters building upon preceding work.

(Textbook: *Chemistry* Pearson + primary and supplemental resources)

## **CHEMISTRY HONORS\***

*One semester (Block); one credit*

*Degree of Difficulty: Above Average*

*Homework: Average to Above*

**Honors students receive differentiated assessments, products, process, and content.** This course introduces students to the composition of substances at the atomic and molecular level. Basic problem-solving techniques, metric conversions, scientific notation are also studied. Students become familiar with the mole and stoichiometry and the composition and states of matter at the atomic and molecular level, the naming of formulas, and chemical reactions. The course includes hydrocarbons, gas laws and nuclear chemistry. Weekly laboratory assignments include the writing of formal laboratory reports. A course requiring higher level thinking abilities forces students to solve complicated word problems. Work is cumulative with the material of the succeeding chapters building upon proceeding work.

(Textbook: *World of Chemistry* Holt + primary and supplemental resources)

## **AP CHEMISTRY\***

*One semester (Block); one credit*

*Degree of difficulty: Advanced*

*Homework: Above average*

This course prepares students for the Advanced Placement Chemistry exam which offers students the opportunity to earn advanced placement or college credit for their high school achievement. Through lecture, problem solving, and labs this course covers the following material: structure and states of matter, chemical reactions, stoichiometry, thermodynamics, equilibrium, acid/base solutions, electrochemistry, oxidation-reduction, organic chemistry and nuclear chemistry. Students sit for the AP exam in May.

(Textbook: *AP Chemistry* Cengage + primary and supplemental resources)

## **ANATOMY\***

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Homework: Average*

Anatomy is the study of the structure of body parts and physiology is the study of the function of these parts. This course in an introductory course which will cover all the basic information necessary for a general understanding of the structure and functions of the human body. Units are as follows: human organization, cell structure, structure and functions of the skin, skeletal and muscular systems, nervous system, senses, endocrine system, composition of blood, blood types, blood groups, vascular and circulatory system, lymphatic system, respiratory system, digestive system, urinary system, and reproductive development.

(Textbook: *Hole's Essentials of Human Anatomy and Physiology* McGraw Hill+ primary and supplemental resources)

## **EARTH SCIENCE\***

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Homework: Average*

Earth Science is the study of Earth's processes in the hydrosphere, geosphere, atmosphere and biosphere. Topics include rocks and minerals, weathering, earthquakes, volcanoes, plate tectonics, oceanography, meteorology, and astronomy. Students will come to an understanding of how many of these topics are interrelated. Students identify key concepts through the reading material and then apply that knowledge in review activities and virtual field trips.

(Textbook: *Earth Science* McGraw Hill + primary and supplemental resources)

## **ENVIRONMENTAL SCIENCE\***

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Prerequisite: Biology*

*Homework: Average*

Environmental Science provides students with knowledge needed to understand the interrelationships among living and nonliving systems. Units include the sustainability of life on Earth, the biodiversity of healthy ecosystems, an examination of Earth's biomes, and environmental concerns related to people.

(Textbook: *Environmental Science* Pearson + primary and supplemental resources)

## **AP ENVIRONMENTAL SCIENCE\***

*One semester (Block); 1 credit*

*Degree of Difficulty: Above Average*

*Homework: Above Average*

From the College Board, "The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Interdisciplinary themes: science is a process; energy

conversions underlie all ecological processes; the earth itself is one interconnected system; humans alter natural systems; environmental problems have a cultural/social context; and human survival depends on developing practices that will achieve sustainable systems.” Students sit for the AP exam in May.

(Textbook: *Living in the Environment* Cengage + primary and supplemental resources)

### **PHYSICS \***

*One semester (Block); 1 credit*

*Degree of Difficulty: Average*

*Homework: Average*

This course introduces students to the study of matter and energy and the relationship between the two. Physics involves extension problem solving, basic geometry, and coordinate systems. Students should have knowledge of integrated problem solving. This course includes a study of vectors, forces, motion, and momentum, a study of the basic forms of energy, states of matter, waves, light, electricity and magnetism. The course prepares students for college physics or AP Physics.

(Textbook: *HMH Physics* Holt + primary and supplemental resources)

### **PHYSICS HONORS\***

*One semester (Block); 1 credit*

*Degree of Difficulty: Average*

*Homework: Average*

This course introduces students to the study of matter and energy and the relationship between the two. Physics involves extension problem solving, basic geometry, and coordinate systems. Students should have knowledge of integrated problem solving. This course includes a study of vectors, forces, motion, and momentum, a study of the basic forms of energy, states of matter, waves, light, electricity and magnetism. The course prepares students for college physics or AP Physics.

(Textbook: *HMH Physics* Holt + primary and supplemental resources)

### **CODING 1/2**

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Coding provides students the opportunity to learn what is Coding and allows them to explore the history of Coding. The students will be exposed to the basic functioning of computers and programming. The students will experience different types of coding such as block-based language, markup and sheet style languages, scripting language, and object-oriented language.

### **INTEGRATED MATH 6/7/8**

*One year (Block):*

*Degree of Difficulty: Regular*

*Homework: Average*

This course demonstrates the usefulness of math in everyday life and to show the connection between math and other courses. It is part of an integrated math curriculum, with continuity from 6th grade. Students expand on previous exposure to simple algebraic concepts involving integers and including linear equations/functions and pattern recognition. Fractions and proportional reasoning are used in everyday scenarios. Skills are developed in measuring geometric 2-/ 3-dimensional figures. (Textbook: *Math Courses 1 and 2* Prentice Hall + supplemental resources)

### **ALGEBRA 1\***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Homework: Average*

In this course, students acquire and demonstrate knowledge of these topics in algebra: expressions and equations, real numbers, solving linear equations, graphing relations and functions, analyzing linear equations, solving linear inequalities, solving systems, polynomials, factoring, quadratic functions, radical expressions, rational expressions, statistics, and probability. (Textbook: *Algebra 1* Glencoe + supplemental resources)

### **ALGEBRA 1 HONORS\***

*One semester (Block); one credit*

*Degree of Difficulty: Above Average*

*Homework: Average to Above*

**Honors students receive differentiated assessments, products, process, and content.** In this course, students acquire and demonstrate knowledge of these topics in algebra: expressions and equations, real numbers, solving linear equations, graphing relations and functions, analyzing linear equations, solving linear inequalities, solving systems, polynomials, factoring, quadratic functions, radical expressions, rational expressions, statistics, and probability.

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(Textbook: *Algebra 1* Glencoe + supplemental resources)

### **GEOMETRY \***

*One semester (Block); one credit*

*Degree of Difficulty: Average*

*Homework: Average*

Topics covered include the language of geometry; reasoning and proof; parallels; congruent triangles; applying congruent triangles; quadrilaterals; similarity; right triangles and trigonometry; circles; polygons and area; surface area and volume; more coordinate geometry; loci; and transformations. Students demonstrate knowledge of the concepts, definitions, and properties outlined above. Students develop critical thinking and decision-making skills by applying concepts learned to practical real-world situations.

(Textbook: *Geometry* Glencoe + supplemental resources)

### **GEOMETRY HONORS\***

*One semester (Block); one credit*

*Degree of Difficulty: Above Average*

*Homework: Average to Above*

**Honors students receive differentiated assessments, products, process, and content.** Topics covered include the language of geometry; reasoning and proof; parallels; congruent triangles; applying congruent triangles; quadrilaterals; similarity; right triangles and trigonometry; circles; polygons and area; surface area and volume; more coordinate geometry; loci; and transformations. Students demonstrate knowledge of the concepts, definitions, and properties outlined above. Students develop critical thinking and decision-making skills by applying concepts learned to practical real-world situations.

(Textbook: *Geometry* Glencoe + supplemental resources)

### **ALGEBRA 2 \***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Prerequisite: Algebra 1*

*Homework: Average*

In the context of real-world applications, this course develops students' computational powers and ability to generalize and craft mathematical solutions to everyday problems. Content explores linear relations and functions, systems of equations and inequalities, matrices. Skills with quadratic and polynomial functions are applied through practice. The course includes sections on advanced functions like conic sections and exponential/logarithmic relations. Trigonometry concepts are introduced in anticipation of subsequent classes Pre-calculus and Calculus classes.

(Textbook: *Algebra 2* Pearson + supplemental resources)

### **ALGEBRA 2 HONORS\***

*One semester (Block); one credit*

*Degree of Difficulty: Above Average*

*Prerequisite: Algebra 1*

*Homework: Average to Above*

Honors students receive differentiated assessments, products, process, and content. In the context of real-world applications, this course develops students' computational powers and ability to generalize and craft mathematical solutions to everyday problems. Content explores linear relations and functions, systems of equations and inequalities, matrices. Skills with quadratic and polynomial functions are applied through practice. The course includes sections on advanced functions like conic sections and exponential/logarithmic relations. Trigonometry concepts are introduced in anticipation of subsequent classes Pre-calculus and Calculus classes.

(Textbook: *Algebra 2* Pearson + supplemental resources)

### **STATISTICS \***

*One semester (Block); one credit*

*Degree of Difficulty: Regular*

*Prerequisite: Algebra 1, Algebra 2, Geometry Homework: Average*

This introductory statistics course emphasizes the elements of statistical thinking and focuses on data and concepts. Students explore data, examine relationships, and make inferential decisions. Included is study of sampling distributions, graphing results, the normal distribution, probability, and inference. Upon completion of this course, students will have a strong background in statistical concepts to be well prepared for a college level Statistics course.

(Textbook: *Stats Modeling the World* Pearson + supplemental resources)

### **STATISTICS HONORS\***

*One semester (Block); one credit*

*Degree of Difficulty: Above Average*

*Prerequisite: Algebra 1, Algebra 2, Geometry*

*Homework: Average to Above*

**Honors students receive differentiated assessments, products, process, and content.** This introductory statistics course emphasizes the elements of statistical thinking and focuses on data and concepts. Students explore data, examine relationships, and make inferential decisions. Included is study of sampling distributions, graphing results, the normal distribution, probability, and inference. Upon completion of this course, students will have a strong background in statistical concepts to be well prepared for a college level Statistics course.  
(Textbook: *Stats Modeling the World* Pearson + supplemental resources)

#### **AP STATISTICS\***

*One semester (Block); one credit*

*Degree of Difficulty: Above Average*

*Homework: Above Average*

The AP course in statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes:

1. Exploring Data: Describing patterns and departures from patterns
2. Sampling and Experimentation: Planning and conducting a study
3. Anticipating Patterns: Exploring random phenomena using probability and simulation
4. Statistical Inference: Estimating population parameters and testing hypotheses

Students who successfully complete the course and exam may receive credit, advanced placement, or both for a one-semester introductory college statistics course in college. Students sit for the May AP exam.

(Textbook: *Statistics & Probability with Applications* BFW Publisher + supplemental resources)

#### **PRE-CALCULUS HONORS\***

*One semester (Block); one credit*

*Degree of Difficulty: Above average*

*Prerequisite: Algebra 1, Algebra 2, Geometry*

*Homework: Average to Above*

Pre-calculus completes the study of the elementary functions begun in Algebra I, Algebra II, and Geometry. Students focus on the use of technology, modeling, and problem-solving using data analysis, trigonometric and circular functions, their inverses, polar coordinates, complex numbers, conics and quadratic relations. Students who complete this course will understand the conceptual foundations of limit, the area under a curve, and the slope of a tangent line, in preparation for the formal study of calculus.

(Textbook: *Precalculus Enhanced* Pearson + supplemental resources)

#### **CALCULUS \***

*One semester (Block); one credit*

*Degree of Difficulty: Advanced*

*Prerequisite: Pre-Calculus*

*Homework: Average to Above*

Calculus is for students with a strong ability and interest in mathematics. Course content includes differential and integral calculus applied to algebraic, polynomial, exponential, logarithmic, and trigonometric functions. Course material incorporates a broad spectrum of interesting applications from the business, social and scientific fields. Problem solving involves a balanced approach to obtain solutions algebraically and analytically and support these results graphically and numerically. Graphing calculator use is mandatory for this course.

(Textbook: *Calculus* Prentice Hall + supplemental resources)

#### **AP CALCULUS AB\***

*One semester (Block); one credit*

*Degree of Difficulty: Above Average*

*Prerequisite: Calculus recommended*

*Homework: Above Average*

AP Calculus AB is a course in single-variable calculus that includes techniques and applications of the derivative, techniques and applications of the definite integral, and the Fundamental Theorem of Calculus. It is the equivalent of a semester of calculus at most colleges and universities. Algebraic, numerical, and graphical representations are emphasized throughout the course. Students sit for the AP exam in May.

#### **UNMANNED AIRCRAFT SYSTEMS**

*One Semester (Block) .5 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

This course will dive into the exciting world of drone technology, from the history of unmanned aircraft to today's world with millions of drones taking to the skies every single day. Students will learn professional, safe practices when operating unmanned aircraft, and build the foundational knowledge to become an FAA Part 107 Commercial Drone operator at the end

of the course. Hands-on experience paired with high-quality knowledge will prepare students for potential careers in this specialized field of aviation.

### **AERONAUTICS**

*One Semester (Block) One Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

This course will explore the aspects of past, present, and future aviation, providing insight and inspiration for the next generation of aviators to begin their journey. Students will become familiar with aviation history, weather, regulations, team-building, mindset, and many more fun and interesting aspects from all sectors of the industry.

### **SPORTS PSYCHOLOGY**

*One Semester (Block) .5 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Sport Psychology is an elective course. This course provides students with an initial understanding of the basic principles of sports psychology. The class will have practical application in that it will relate sport science and psychological understandings to current student-athletes concerns. In addition, students interested in postsecondary study or careers in the fields of clinical and educational sports psychology, coaching, personal training, athletic training, and physical education will find this course of interest

### **MS CULINARY ARTS**

*One Semester (Block) One Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Food is an important part of living. It feeds our bodies, and it is often the central part of our social life and family gatherings. In MS Culinary Arts, students will learn about food, including food culture, food history, food safety, and current food trends. They also will be exposed to the commercial aspects of the food service industry and prepare some culinary dishes. Through hands-on activities and in-depth study of the culinary arts field, this course helps students improve their cooking skills and gives them the opportunity to explore careers in the food services.

### **HS CULINARY ARTS**

*One Semester (Block) One Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

A continuation of MS Culinary Arts, the student will continue to learn the importance of food through more advanced hands-on activities and in-depth study of the culinary arts field.

### **COMPUTER ANIMATION**

*One Semester (Block) one Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

This course teaches the basic 3D computer animation techniques, such as key framing, rigging and posing, rigid body dynamics, path animation. Students will use the 3D modeling and animation tool Maya ([www.Autodesk.com](http://www.Autodesk.com)) to study these techniques and develop course projects

### **STORY OF SCRIPTURE**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Each student will be challenged to become the person God created them to be in our complex world. We will discuss pressing questions about life and faith to increase our understanding of God. My goal is to walk with each student at their level and present an engaging, thought-provoking, and relevant theological education that will benefit them throughout their lives.

### **LEADERSHIP**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Leadership course is designed to emphasize that anyone can be a leader—and it's never too early to start learning what leadership means and how to lead. This resource engages all emerging leaders, at all emotional and academic levels, by taking a full, practical approach to building personal and group leadership attitudes. The easy-to-use activities, in categories such as Understanding Leadership, Communication, Working with Others, Problem Solving, and Making a Difference, are designed to promote group interaction, build self-confidence, and allow students to explore personal understanding.

### **ENRICHMENT**

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*One Semester (Block)*

*Degree of Difficulty: Regular*

*Homework: Average*

Enrichment is a time for students to have supervised educational fun! Students will be involved with outdoor activities such as gardening, raising rabbits, bike riding, stand up paddle boarding, etc. Students will also participate in educational programs at the Coastal Discover Museum and the Island Recreation Center. Various field trips will be planned based on the students' interests.

### **AUTOMOTIVE TECHNOLOGY I**

*One Semester (Block)*

*Degree of Difficulty: Regular*

*Homework: Average*

Students will gain basic knowledge in the maintenance of the automobile. Students will explore, handle, and gain knowledge of basic functions in engine repair, automatic transmission and transaxle, manual drive train and axles, suspension and steering systems, as well as vehicle braking systems. They will also learn about electrical, electronic, and HVAC systems in automobiles.

The Automotive Technology program provides students with a classroom segment and hands-on work. Students work on vehicles that have been scheduled for repairs as well as practice vehicles.

### **GAME DEVELOPMENT**

*One Semester (Block)*

*Degree of Difficulty: Regular*

*Homework: Average*

This course emphasizes game control and logic, design tools, and the physics of games using computer programming.

**OBJECTIVE:** Given the necessary equipment, supplies, and appropriate software, the student will be prepared to engage in further game development training.

### **AP HUMAN GEOGRAPHY**

*One Semester (Block)*

*Degree of Difficulty: Regular*

*Homework: Average*

The Advanced Placement Human Geography (APHG) course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. AP Human Geography is an introductory college-level human geography course. Students cultivate their understanding of human geography through data and geographic analyses as they explore topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes.

### **LIFE SKILLS**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Life Skills is designed to increase student knowledge and skills necessary for everyday living. The course emphasizes goal-setting, decision making and problem solving, communication, healthy lifestyles and relationships, nutrition, personal safety, citizenship and consumerism.

### **ROBOTICS**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Robotics is a lab-based course that uses a hands-on approach to introduce the basic concepts of robotics, focusing on the construction and programming of autonomous mobile robots. Course information will be tied to lab experiments; students will work in groups to build and test increasingly more complex mobile robots, culminating in an end-of-semester robot contest. Students will be divided into groups and complete a variety of robot construction and programming activities within the confines of these groups.

### **PHYSICAL SCIENCE**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Physical Science is designed to serve as a foundation course for other high school science courses. It is a laboratory course that integrates principles of chemistry and physics. It emphasizes inquiry-based learning, process skills, and higher order thinking skills.

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## **ENTREPRENEURSHIP**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

Students learn how to generate business ideas; create a business plan, mission and vision; and promote and market a company. Topics include exploring factors of business success and failure, core business concepts, economic systems, competition, production, and the global economy.

## **STRINGS 1**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

This class is for students who have never played a stringed instrument (violin, viola, cello) and wish to learn from the very beginning. This class is open to all grades. Students will be required to rent/own an instrument for their use in class, and some other materials may need to be purchased. This course will cover playing technique, beginning note reading and ensemble skills.

## **STRINGS II**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

This class is for students who have completed Strings 1 or who have been auditioned and approved by the teacher. This class is open to all grades. Students will be required to rent/own an instrument for their use in class, and some other materials may need to be purchased. This course will build on the skills from Strings 1, with a greater emphasis on note reading and group playing skills.

## **6<sup>th</sup> GRADE MATHEMATICS**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

The students will receive instruction in and demonstrate the ability to perform basic mathematical functions and problem solving in the areas of addition, subtraction, multiplication, and division of whole numbers, decimals, fractions, ratio and proportion, pre-algebra, and geometry.

## **7<sup>th</sup> GRADE SCIENCE**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

7<sup>th</sup> Grade Science is designed to expose students to many facets of the natural world through science and engineering practices. Life, environmental, and physical science will all be taught as an integrated course. Students will utilize science practices to identify and solve problems, apply critical thinking skills to everyday situations, work cooperatively to achieve common goals, make connections between science concepts and current events, connect science and technology using computers and laboratory equipment, make scientific connections through the writing process, and see how different sciences are dependent on each other. Communication, collaboration, creativity, and critical thinking are important skills in science as they are in life, so projects may include designing and building models, oral and/or written reports, and group work.

## **8<sup>th</sup> GRADE SCIENCE**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

The eighth-grade science curriculum includes reading comprehension, mathematics, critical thinking, problem solving and research skills which are emphasized in various content areas. The curriculum is a combination of physical science, astronomy, geology and life science.

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## **8th GRADE MATHEMATICS**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

The eighth Grade Mathematics course prepares students for more advanced study in algebra as students solve linear equations and systems of equations, work with radical and integer exponents, gain conceptual understanding of functions, and use functions to model quantitative relationships. To prepare students for more advanced study in geometry, the course emphasizes the Pythagorean theorem and a deepening exploration of similarity and congruence.

## **INTERNSHIP**

*One Semester (Block) 1 Credit*

*Degree of Difficulty: Regular*

*Homework: Average*

A one-on-one relationship with an employer that provides “hands-on” learning in a career area of student interest. A required learning contract outlines the expectations of and responsibility of both parties. The student works regularly during or after school for a specified time period in exchange for the employer’s time in teaching and demonstrating. The internship shall include a minimum of 120 hours of work for the credit.

**In addition to the in-seat Heritage Academy courses listed, if there is a schedule conflict, students may take [Florida Global Virtual School](#) courses offered each year.**

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