



Montgomery Virtual Program



Course Catalog 2021-2022

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Courses marked ● are .5 credit semester courses.

Course lists are subject to change.

English Language Arts

ENGLISH LANGUAGE ARTS 6

This course eases students' transition to middle school with engaging, age-appropriate literary and informational reading selections. Students learn to read critically, analyze texts, and cite evidence to support ideas as they read essential parts of literary and informational texts and explore a full unit on Lewis Carroll's classic novel *Through the Looking Glass*. Vocabulary, grammar, and listening skills are sharpened through lessons that give students explicit modeling and ample practice. Students also engage in routine, responsive writing based on texts they have read. In extensive, process-based writing lessons, students write topical essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.

ENGLISH LANGUAGE ARTS 7

Students grow as readers, writers, and thinkers in this middle school course. With engaging literary and informational texts, students learn to think critically, analyze an author's language, and cite evidence to support ideas. Students complete an in-depth study of Jack London's classic novel *White Fang* and read excerpts from other stories, poetry, and nonfiction. Explicit modeling and ample opportunities for practice help students sharpen their vocabulary, grammar, and listening skills. Students also respond routinely to texts they have read. In extensive, process-based writing lessons, students write topical essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.

ENGLISH LANGUAGE ARTS 8

In this course, students build on their knowledge and blossom as thoughtful readers and clear, effective writers. A balance of literary and informational texts engage students throughout the course in reading critically, analyzing texts, and citing evidence to support claims. Students sharpen their vocabulary, grammar, and listening skills through lessons designed to provide explicit modeling and ample opportunities to practice. Students also routinely write responses to texts they have read, and use more extensive, process-based lessons to produce full-length essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.

ENGLISH LANGUAGE ARTS 9

This freshman-year English course engages students in literary analysis and inferential evaluation of great texts both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, students will master comprehension and literary-analysis strategies. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their oral language skills and produce clear, coherent writing.

Students will read a range of classic texts including Homer's *The Odyssey*, Shakespeare's *Romeo and Juliet*, and Richard Connell's "The Most Dangerous Game." They will also study short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan. Contemporary texts by Richard Preston, Julia Alvarez, and Maya Angelou round out the course.

ENGLISH LANGUAGE ARTS 10

Focused on application, this sophomore English course reinforces literary analysis and twenty-first century skills with superb pieces of literature and literary nonfiction, application e-resources, and educational interactives. Each thematic unit focuses on specific literary analysis skills and allows students to apply them to a range of genres and text structures. As these units meld modeling and application, they also expand on training in media literacy, twenty-first century career skills, and the essentials of grammar and vocabulary. Under the guidance of the eWriting software, students also compose descriptive, persuasive, expository, literary analysis, research, narrative, and compare-contrast essays.

ENGLISH LANGUAGE ARTS 11

This junior-year English course invites students to delve into American literature from early American Indian voices through contemporary works. Students engage in literary analysis and inferential evaluation of great texts as the centerpieces of this course. While critically reading fiction, poetry, drama, and expository nonfiction, students master comprehension and literary analysis strategies. Interwoven in the lessons across two semesters are tasks that encourage students to strengthen their oral language skills and produce creative, coherent writing. Students read a range of short but complex texts, including works by Ralph Waldo Emerson, Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers.

ENGLISH LANGUAGE ARTS 12

This senior-level English course offers fascinating insight into British literary traditions spanning from Anglo-Saxon writing to the modern period. With interactive introductions and historical contexts, this full-year course connects philosophical, political, religious, ethical, and social influences of each time period to the works of many notable authors, including Chaucer, William Shakespeare, Queen Elizabeth I, Elizabeth Barrett Browning, and Virginia Woolf. Adding an extra dimension to the British literary experience, this course also exposes students to world literature, including works from India, Europe, China, and Spain.

LITERACY and COMPREHENSION I

This course is one of two intervention courses designed to support the development of strategic reading and writing skills. These courses use a thematic and contemporary approach, including high-interest topics to motivate students and expose them to effective instructional principles using diverse content area

and real-world texts. Both courses offer an engaging technology-based interface that inspires and challenges students to gain knowledge and proficiency in the following comprehension strategies: summarizing, questioning, previewing and predicting, recognizing text structure, visualizing, making inferences, and monitoring understanding with metacognition. Aimed at improving fluency and vocabulary, self-evaluation strategies built into these courses inspire students to take control of their learning.

LITERACY and COMPREHENSION II

Offering high-interest topics to motivate students who are reading two to three levels below grade, this course works in conjunction with Literacy and Comprehension I to use a thematic and contemporary approach to expose students to effective instructional principles using diverse content area and real-world texts. Each of these reading intervention courses offers an engaging, technology-based interface that inspires and challenges high school and middle school students to gain knowledge and proficiency in the following comprehension strategies: summarizing, questioning, previewing and predicting, recognizing text structure, visualizing, making inferences, and monitoring understanding with metacognition. Aimed at improving fluency and vocabulary, self-evaluation strategies built into these courses inspire students to take control of their learning.

EXPOSITORY READING AND WRITING

This full-year elective English course is designed to develop critical reading and writing skills while preparing high school students to meet the demands of college-level work. While students will explore some critical reading skills in fiction, poetry, and drama the focus of this course will be on expository and persuasive texts and the analytical reading skills that are necessary for college success. Students will read a range of short but complex texts, including works by Walt Whitman, Abraham Lincoln, Cesar Chavez, Martin Luther King Jr., Langston Hughes, Julia Alvarez, Edna St. Vincent Millay, and Gary Soto.

INTRODUCTION TO COMMUNICATIONS AND SPEECH

Beginning with an introduction that builds student understanding of the elements, principles, and characteristics of human communication, this course offers fascinating insight into verbal and nonverbal messages and cultural and gender differences in the areas of listening and responding. High school students enrolled in this course will be guided through engaging lectures and interactive activities, exploring themes of self-awareness and perception in communication. The course concludes with units on informative and persuasive speeches, and students are given the opportunity to critique and analyze speeches.

MATHEMATICS 6

This course begins by connecting ratio and rate to multiplication and division, allowing students to use ratio reasoning to solve a wide variety of problems. Students further apply their understanding of multiplication and division to explain the standard procedure for dividing fractions. This course builds upon previous notions of the number system to now include the entire set of rational numbers. Students begin to understand the use of variables as they write, evaluate, and simplify expressions. They use the idea of equality and properties of operations to solve one-step equations and inequalities. In statistics, students explore different graphical ways to display data. They use data displays, measures of center, and measures of variability to summarize data sets. The course concludes with students reasoning about relationships among shapes to determine area, surface area, and volume.

MATHEMATICS 7

This course begins with an in-depth study of proportional reasoning during which students utilize concrete models such as bar diagrams and tables to increase and develop conceptual understanding of rates, ratios, proportions, and percentages. Students' number fluency and understanding of the rational number system are extended as they perform operations with signed rational numbers embedded in real-world contexts. In statistics, students develop meanings for representative samples, measures of central tendency, variation, and the ideal representation for comparisons of given data sets. Students develop an understanding of both theoretical and experimental probability. Throughout the course, students build fluency in writing expressions and equations that model real-world scenarios. They apply their understanding of inverse operations to solve multi-step equations and inequalities. Students build on their proportional reasoning to solve problems about scale drawings by relating the corresponding lengths between objects. The course concludes with a geometric analysis of angle relationships, area, and volume of both two- and three-dimensional figures.

MATHEMATICS 8

The course begins with a unit on input-output relationships that builds a foundation for learning about functions. Students make connections between verbal, numeric, algebraic, and graphical representations of relations and apply this knowledge to create linear functions that can be used to model and solve mathematical and real-world problems. Technology is used to build deeper connections among representations. Students focus on formulating expressions and equations, including modeling an association in bivariate data with a linear equation, and writing and solving linear equations and systems of linear equations. Students develop a deeper understanding of how translations, rotations, reflections, and dilations of distances and angles affect congruency and similarity. Students develop rules of exponents and use them to simplify exponential

expressions. Students extend rules of exponents as they perform operations with numbers in scientific notation. Estimating and comparing square roots of non-perfect squares to perfect squares exposes students to irrational numbers and lays the foundation for applications such as the Pythagorean theorem, distance, and volume.

PRE-ALGEBRA

This full-year course is designed for students who have completed a middle school mathematics sequence but are not yet algebra ready. This course reviews key algebra readiness skills from the middle grades and introduces basic Algebra I work with appropriate support. Students revisit concepts in numbers and operations, expressions and equations, ratios and proportions, and basic functions. By the end of the course, students are ready to begin a more formal high school Algebra I study.

ALGEBRA I

This full-year course focuses on five critical areas: relationships between quantities and reasoning with equations, linear and exponential relationships, descriptive statistics, expressions and equations, and quadratic functions and modeling. This course builds on the foundation set in middle grades by deepening students' understanding of linear and exponential functions and developing fluency in writing and solving one-variable equations and inequalities. Students will interpret, analyze, compare, and contrast functions that are represented numerically, tabularly, graphically, and algebraically. Quantitative reasoning is a common thread throughout the course as students use algebra to represent quantities and the relationships among those quantities in a variety of ways. Standards of mathematical practice and process are embedded throughout the course, as students make sense of problem situations, solve novel problems, reason abstractly, and think critically.

GEOMETRY

This full-year course formalizes what students learned about geometry in the middle grades with a focus on reasoning and making mathematical arguments. Mathematical reasoning is introduced with a study of triangle congruency, including exposure to formal proofs and geometric constructions. Then students extend what they have learned to other essential triangle concepts, including similarity, right-triangle trigonometry, and the laws of sines and cosines. Moving on to other shapes, students justify and derive various formulas for circumference, area, and volume, as well as cross-sections of solids and rotations of two-dimensional objects. Students then make important connections between geometry and algebra, including special triangles, slopes of parallel and perpendicular lines, and parabolas in the coordinate plane, before delving into an in-depth investigation of the geometry of circles. The course closes with a study of set theory and probability, as students apply theoretical and experimental probability to make decisions informed by data analysis.

ALGEBRA II

This full-year course focuses on functions, polynomials, periodic phenomena, and collecting and analyzing data. The course begins with a review of linear and quadratic functions to solidify a foundation for learning these new functions. Students make connections between verbal, numeric, algebraic, and graphical representations of functions and apply this knowledge as they create equations and inequalities that can be used to model and solve mathematical and real-world problems. As students refine and expand their algebraic skills, they will draw analogies among the operations and field properties of real numbers and those of complex numbers and algebraic expressions. Mathematical practices and habits of mind are embedded throughout the course, as students solve novel problems, reason abstractly, and think critically.

PRECALCULUS

With an emphasis on function families and their representations, this full-year course is a thoughtful introduction to advanced studies leading to calculus. The course briefly reviews linear equations, inequalities, and systems and moves purposefully into the study of functions. Students then discover the nature of graphs and deepen their understanding of polynomial, rational, exponential, and logarithmic functions. Scaffolding rigorous content with clear instruction, the course leads students through an advanced study of trigonometric functions, matrices, and vectors. The course concludes with a short study of probability and statistics.

MATHEMATICS I

The first in an integrated math series for high school, this full-year course formalizes and extends middle school mathematics, deepening students' understanding of linear relationships. The course begins with a review of relationships between quantities, building from unit conversion to a study of expressions, equations, and inequalities. Students contrast linear and exponential relationships, including a study of sequences, as well as applications such as growth and decay. Students review one-, two-, and multi-step equations, formally reasoning about each step using properties of equality. Students extend this reasoning to systems of linear equations. Students use descriptive statistics to analyze data before turning their attention to transformations and the relationship between algebra and geometry on the coordinate plane.

MATHEMATICS II

This full-year course begins with a brief exploration of radicals and polynomials before delving into quadratic expressions, equations, and functions, including a derivation of the quadratic formula. Students then embark on a deep study of the applications of probability and develop advanced reasoning skills with a study of similarity, congruence, and proofs of mathematical theorems. Students explore right triangles with an introduction to right triangle trigonometry before turning their attention into the geometry of circles and making informal

arguments to derive formulas for volumes of various solids.

MATHEMATICS III

This full-year course synthesizes previous mathematical learning in four focused areas of instruction. First, students relate visual displays and summary statistics to various types of data and to probability distributions with a focus on drawing conclusions from the data. Then, students embark on an in-depth study of polynomial, rational, and radical functions, drawing on concepts of integers and number properties to understand polynomial operations and the combination of functions through operations. This section of instruction builds to the fundamental theorem of algebra. Students then expand the study of right-triangle trigonometry they began in Mathematics II to include non-right triangles and developing the laws of sines and cosines. Finally, students model an array of real world situations with all the types of functions they have studied, including work with logarithms to solve exponential equations. As they synthesize and generalize what they have learned about a variety of function families, students appreciate the usefulness and relevance of mathematics in the real world.

MATHEMATICAL MODELS WITH APPLICATIONS

Broadening and extending the mathematical knowledge and skills acquired in Algebra I, the primary purpose of this full-year course is to use mathematics as a tool to model real-world phenomena students may encounter daily, such as finance and exponential models. Engaging lessons cover financial topics, including growth, smart money, saving, and installment-loan models. Prior mathematical knowledge is expanded, and new knowledge and techniques are developed through real-world application of useful mathematical concepts.

FINANCIAL MATH

Connecting practical mathematical concepts to personal and business settings, this course offers informative and highly useful lessons that challenge students to gain a deeper understanding of financial math. Relevant, project-based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data. Offered as a two-semester course for high school students, this course encourages mastery of math skill sets, including percentages, proportions, data analysis, linear systems, and exponential functions.

PROBABILITY AND STATISTICS

This full-year high school course provides an alternative math credit for students who may not wish to pursue more advanced mathematics courses such as Algebra II and Pre-Calculus. The first half of the course begins with an in-depth study of probability and an exploration of sampling and comparing populations and closes with units on data distributions and data analysis. In the second half of the course, students create and analyze scatterplots and study two-way tables and normal distributions. Finally, students apply probability to topics such as conditional probability, combinations and

permutations, and sets.

STATISTICS

This fourth-year high school math option provides a comprehensive introduction to data analysis and statistics. Students begin by reviewing familiar data displays through a more sophisticated lens before diving into an in-depth study of the normal curve. They then study and apply simple linear regression and explore sampling and experimentation. Next, students review probability concepts and begin a study of random variables. Later topics also include sampling distributions, estimating and testing claims about proportions and means, and inferences and confidence intervals.

TRIGONOMETRY

In this one-semester course, students use their geometry and algebra skills to begin their study of trigonometry. Students will be required to express understanding using qualitative, quantitative, algebraic, and graphing skills. This course begins with a quick overview of right-triangle relationships before introducing trigonometric functions and their applications. Students explore angles and radian measures, circular trigonometry, and the unit circle. Students extend their understanding to trigonometric graphs, including the effects of translations and the inverses of trigonometric functions. This leads to the laws of sines and cosines, followed by an in-depth exploration of trigonometric identities and applications. This course ends with an introduction to the polar coordinate system, complex numbers, and DeMoivre's theorem.

CALCULUS

This school-year only course provides a comprehensive survey of differential and integral calculus concepts, including limits, derivative and integral computation, linearization, Riemann sums, the fundamental theorem of calculus, and differential equations. Content is presented across ten units and covers various applications, including graph analysis, linear motion, average value, area, volume, and growth and decay models. In this course, students use an online textbook that supplements the instruction they receive and provides additional opportunities to practice using the content they've learned. Students use an embedded graphing calculator applet (GCalc) for their work on this course; there is no charge to download the software for the applet. Prerequisite: Pre-Calculus/Trigonometry (or equivalent)

Science

SCIENCE 6

This full-year course for sixth grade students focuses on increasing student knowledge of the applications of life, earth, and physical sciences in the natural world including the basic principles of scientific inquiry. Students investigate earth science topics such as Earth's location and role in the universe, and the overall structure of the solar system and the definitions, forms, and classifications of living organisms. Other units introduce students to

matter, energy, temperature, motion, and force. The larger themes throughout the course are applied to real-world topics, such as human biology and health, as students complete hands on projects and laboratory experiments.

SCIENCE 7

This full-year, seventh-grade course focuses on introducing students to the diversity of life found on our planet. The course includes an overview of scientific principles and procedures, and leads students toward a clearer understanding of cells and heredity, the five kingdoms, human body systems, and ecology. As students refine and expand their understanding of life science, they will apply their knowledge in investigations that require them to ask questions and explore the world around them. Throughout the course, students will also solve problems, reason abstractly, and learn to think critically.

SCIENCE 8

This full-year, eighth-grade course exposes students to a thorough study of specific topics within the life, earth and physical sciences. The course includes an overview of scientific principles and procedures, and leads students toward a clearer understanding of the world around them as they study topics such as motion and forces, waves, geology, energy, the physical environment, and the effect of human activity. As students refine and expand their understanding of science, they will apply their knowledge in experiments that require them to ask questions and create hypotheses. Throughout the course, students solve problems, reason abstractly, and learn to think critically. The larger themes are also applied to real-world topics while students complete hands on laboratory experiments.

EARTH AND SPACE SCIENCE

Students enrolled in this rigorous course will expand on the knowledge and skills developed in middle school to explain more in-depth phenomena central to the earth and space sciences and to their daily lives. Students will gain an understanding of the universe and explore other topics such as Earth's history, structure, weather, biosphere, hydrosphere, atmosphere, resources, and the impact humans have on Earth's resources. The course includes interactive real-world examples throughout the lessons and application projects, as well as interactive lab simulations and in-school, hands-on lab options. Earth and Space Science is a two-semester course that will provide a solid foundation for understanding the physical characteristics that make the planet Earth unique and will examine how these characteristics differ among the planets of our solar system.

BIOLOGY

This compelling full-year course engages students in the study of life and living organisms and examines biology and biochemistry in the real world. This is a yearlong course that encompasses traditional concepts in biology and encourages exploration of new discoveries in this field of science. The components include biochemistry,

cell biology, cell processes, heredity and reproduction, the evolution of life, taxonomy, human body systems, and ecology. This course includes both hands-on wet labs and virtual lab options.

CHEMISTRY

This rigorous, full-year course engages students in the study of the composition, properties, changes, and interactions of matter. The course covers the basic concepts of chemistry and includes eighteen virtual laboratory experiments that encourage higher-order thinking applications. The components of this course include chemistry and its methods, the composition and properties of matter, changes and interactions of matter, factors affecting the interactions of matter, electrochemistry, organic chemistry, biochemistry, nuclear chemistry, mathematical applications, and applications of chemistry in the real world.

PHYSICS

This full-year course acquaints students with topics in classical and modern physics. The course emphasizes conceptual understanding of basic physics principles, including Newtonian mechanics, energy, thermodynamics, waves, electricity, magnetism, and nuclear and modern physics. Throughout the course, students solve mathematical problems, reason abstractly, and learn to think critically about the physical world. The course also includes interactive virtual labs and hands-on lab options, in which students ask questions and create hypotheses.

PHYSICAL SCIENCE

Encompassing the branch of science that studies nonliving systems, this course inspires students to explore key concepts and theories, each of which explains and/or models a particular aspect of the behavior of nature. Students enrolled in this two-semester course examine the composition of matter and the chemical building blocks of our physical world. They explore the properties that affect motion, forces, fluids, and energy on Earth. Additionally, students discuss the topics of electric circuits, light, sound, and heat. Building on these concepts, the course finishes with a study of the dynamic properties of electricity and magnetism and the effects these phenomena exhibit on the planet.

ENVIRONMENTAL SCIENCE

Environmental science is a captivating and rapidly expanding field, and this two-semester course offers compelling lessons that cover many aspects of the field: ecology, the biosphere, land, forests and soil, water, energy and resources, and societies and policy. Through unique activities and material, high school students connect scientific theory and concepts to current, real-world dilemmas, providing them with opportunities for mastery in each of the segments throughout the semesters.

Social Studies

SOCIAL STUDIES 6 - WORLD CULTURES and GEOGRAPHY

Designed to introduce students to the study of geography, this full-year course helps students master important concepts in physical and human geography. Comprehensive and organized by region, this two-semester middle school course helps students understand the Earth's physical and human diversity. Students analyze population and settlement patterns and evaluate the ways that human activities modify the physical environment. While studying humans around the world, students compare development, standards of living, systems of government, and economic factors across the globe. In addition, students gain a rich understanding of global cultures and the historical factors that have shaped the world around them. All units in the course are parallel and include studies in physical and human geography, ancient cultures, regional studies, and modern issues.

SOCIAL STUDIES 7 - U.S. HISTORY

Offering an interactive and comprehensive overview of American history, this full-year course engages and inspires students to learn about the rich and diverse history of America's native peoples, early European colonization and settlement in America, and the creation of a new nation through the American Revolution. Middle school students enrolled in this course will closely examine major changes brought about by the nation's reconstruction, industrialization, urbanization, and progressive reforms and consider the implications each of these events had on the expansion of the United States' global influence through modern times. Over the course, interesting course content encourages students to think carefully about the challenges and opportunities facing the United States in the twenty-first century.

SOCIAL STUDIES 8 - WORLD HISTORY

Providing students with an opportunity to learn the diverse history that has shaped our world, this full-year course delves into the evolution of civilization from the rise of ancient empires through the twenty-first century. Middle school students enrolled in this exciting and informative course investigate the development of medieval societies, the effects of the Renaissance and the Reformation, and the progress made during various periods of revolution, industrialization, urbanization, and reform. Over the course, students analyze effects of political conflicts and social issues on the continuing development and interdependence among nations in the modern world.

WORLD HISTORY: 1450 TO PRESENT

This year-long course examines world history from the Renaissance through to modern-day Europe, Latin America, Africa, the Middle East, Asia, and the Pacific. Students explore major themes and developments that shaped the modern world, including human rights, revolution, and democracy to develop an understanding of the roots of current world issues. Students also consider

more deeply the role of economics in shaping the world's events.

SURVEY OF WORLD HISTORY

This year-long course examines the major events and turning points of world history from ancient times to the present. Students investigate the development of classical civilizations in the Middle East, Africa, Europe, and Asia, and they explore the economic, political, and social revolutions that have transformed human history. At the end of the course, students conduct a rigorous study of modern history, allowing them to draw connections between past events and contemporary issues. The use of recurring themes, such as social history, democratic government, and the relationship between history and the arts, allows students to draw connections between the past and the present, among cultures, and among multiple perspectives. Throughout the course, students use a variety of primary and secondary sources, including legal documents, essays, historical writings, and political cartoons to evaluate the reliability of historical evidence and to draw conclusions about historical events.

MODERN WORLD HISTORY

This year-long course examines the major events and turning points of world history from the Enlightenment to the present. Students investigate the foundational ideas that shaped the modern world in the Middle East, Africa, Europe, Asia, and the Americas, and then explore the economic, political, and social revolutions that have transformed human history. This rigorous study of modern history examines recurring themes, such as social history, democratic government, and the relationship between history and the arts, allowing students to draw connections between the past and the present, across cultures, and among multiple perspectives. Students use a variety of primary and secondary sources, including legal documents, essays, historical writings, and political cartoons to evaluate the reliability of historical evidence and to draw conclusions about historical events. Students also sharpen their writing skills in shorter tasks and assignments, and practice outlining and drafting skills by writing full informative and argumentative essays.

SURVEY OF U.S. HISTORY

This year-long course presents a cohesive and comprehensive overview of the history of the United States, surveying the major events and turning points of U.S. history as it moves from the Era of Exploration through modern times. As students examine each era of history, they will analyze primary sources and carefully research events to gain a clearer understanding of the factors that have shaped U.S. history. In early units, students will assess the foundations of U.S. democracy while examining crucial documents. In later units, students will examine the effects of territorial expansion, the Civil War, and the rise of industrialization. They will also assess the outcomes of economic trends and the connections between culture and government. As the course draws to a close, students will focus their studies on the causes of cultural and political change in the modern age. Throughout the course, students will learn

the importance of cultural diversity while examining history from different perspectives.

U.S. HISTORY I

U.S. History I is a year-long course that dynamically explores the people, places, and events that shaped early United States history. This course stretches from the Era of Exploration through the Industrial Revolution, leading students through a careful examination of the defining moments that shaped the nation of today. Students begin by exploring the colonization of the New World and examining the foundations of colonial society. As they study the early history of the United States, students will learn critical-thinking skills by examining the constitutional foundations of U.S. government. Recurring themes such as territorial expansion, the rise of industrialization, and the significance of slavery will be examined in the context of how these issues contributed to the Civil War and Reconstruction.

U.S. HISTORY: 1850 TO PRESENT

This is a year-long course that examines the major events and turning points of U.S. history from the Industrial Revolution through the modern age. The course leads students toward a clearer understanding of the patterns, processes, and people that have shaped U.S. history. As students progress through each era of modern U.S. history, they will study the impact of dynamic leadership and economic and political change on our country's rise to global prominence. Students will also examine the influence of social and political movements on societal change and the importance of modern cultural and political developments. Recurring themes lead students to draw connections between the past and the present, between cultures, and among multiple perspectives.

CIVICS AND CITIZENSHIP

Civics and Citizenship is a one-semester elective appropriate for students in middle school and early high school. The course investigates events, concepts, and issues with a 360-degree view allowing multiple perspectives from various cultures and institutions to inform student learning. The course is divided into five units in which students will explore their civic roles, rights, and responsibilities; analyze the development of democracy in the United States; study the purposes and principles of the Constitution; investigate the role of power in decision-making; and discover ways to influence the government. The course provides opportunities to actively engage with the content through interactives, assignments, readings, short writings, projects, and discourse.

CIVICS AND GOVERNMENT

This semester-long course provides students with a practical understanding of the principles and procedures of government. The course begins by establishing the origins and founding principles of American government. After a rigorous review of the Constitution and its amendments, students investigate the development and extension of civil rights and liberties. Lessons also introduce influential Supreme Court decisions to

demonstrate the impact and importance of constitutional rights. The course builds on this foundation by guiding students through the function of government today and the role of citizens in the civic process and culminates in an examination of public policy and the roles of citizens and organizations in promoting policy changes. Throughout the course, students examine primary and secondary sources, including political cartoons, essays, and judicial opinions. Students also sharpen their writing skills in shorter tasks and assignments and practice outlining and drafting skills by writing full informative and argumentative essays.

ECONOMICS

Available as either a semester (PA-CORE ALIGNED) or a full year (NATIONAL CORE ALIGNED) this course invites students to broaden their understanding of how economic concepts apply to their everyday lives—including microeconomic and macroeconomic theory and the characteristics of mixed-market economies, the role of government in a free-enterprise system and the global economy, and personal finance strategies. Throughout the course, students apply critical-thinking skills while making practical economic choices. Students also master literacy skills through rigorous reading and writing activities. Students analyze data displays and write routinely and responsively in tasks and assignments that are based on scenarios, texts, activities, and examples. In more extensive, process-based writing lessons, students write full-length essays in informative and argumentative formats.

GEOGRAPHY

This year-long course examines the numerous physical processes which have shaped the world's landscapes, as well as various historical, political, and economic forces which underlie the world's complex social landscapes. The regions covered include North America, Latin America, Europe, Africa, the Middle East, the former Soviet Union, Asia, and the Pacific.

HUMAN GEOGRAPHY

Examining current global issues that impact our world today, this course takes a thematic approach to understanding the development of human systems, human understanding of the world, and human social organization. Divided into two semesters, this high school course will challenge students to develop geographic skills, including learning to interpret maps, analyze data, and compare theories. Offering interactive content that will grow students' understanding of the development of modern civilization and human systems—from the agricultural revolution to the technological revolution—this course encourages students to analyze economic trends as well as compare global markets and urban environments.

Honors Courses

MATHEMATICS

ALGEBRA I HONORS

This full-year honors course introduces students to linear, exponential, and quadratic functions by interpreting, analyzing, comparing, and contrasting functions that are represented numerically, tabularly, graphically, and algebraically. Technology is utilized within some lessons to further support students in identifying key features as well as displaying images of the functions. The course builds upon the basic concepts of functions to include transformations of linear and non-linear functions. Students deepen their understanding of quantitative reasoning, piecewise functions, and quadratic functions through performance tasks. The additional performance-based skills allow the honors students to apply more of the concepts taught in the course. The course concludes with students analyzing data through displays and statistical analysis.

GEOMETRY HONORS

The course begins by exploring the foundational concepts of Euclidean Geometry in which students learn the terminology of geometry, measuring, proving theorems, and constructing figures. Students then expand on their knowledge of transformations and complete an assignment on identifying point symmetry as well as completing a performance task on tessellations. The course continues with an in-depth look at triangles where students prove theorems, relating congruency and similarity in terms of transformations, and connecting right triangles relationships to trigonometry. Students study set theory and apply probability through theoretical and experimental probability, two-way tables, and combinations and permutations. With lessons pertaining to quadrilaterals, students can identify the various figures based on their key features. Within the circles units, students identify angles, radii, and chords, perform a performance-based task on tangents, and then compute the circumference and area of various circles. Then students study parabolas, ellipses and hyperbolas before modeling and computing two- and three-dimensional figures.

ALGEBRA II HONORS

The course begins with a review of concepts that will assist students throughout the course, such as literal equations, problem solving, and word problems. Students then progress to a unit on functions where students compute operations of functions, compose of functions, and study inverses of functions. To build on their algebraic skills, students learn about complex numbers and apply them to quadratic functions via completing the square and quadratic formula methods. Next, students solve linear systems and apply their knowledge of the concept to three-by-three systems. An in-depth study on polynomial operations and functions allow students build their knowledge of polynomials algebraically and graphically. In the second semester,

students study nonlinear functions. Students solve and graph rational and radical functions whereas the exponential and logarithmic functions focus on the key features and transformations of the functions. Expected value and normal distribution concepts expand and deepen students' knowledge of probability and statistics. Students also cover trigonometric functions and periodic phenomena.

PRE-CALCULUS HONORS

This full-year advanced math course starts with a unit on the nature of functions and complex numbers before moving into matrices, systems, and linear programming. Students then return to functions with a focus on graphing a variety of function types; this unit includes a performance task on production schemes. Students explore rational functions in depth and then conclude the first semester with right triangle and circular trigonometry. In the second half of the course, students synthesize what they have learned to graph and solve trigonometric functions. They also study vectors, conics and analytic geometry, statistics and probability, mathematical modeling, and sequences and series.

ENGLISH LANGUAGE ARTS

LANGUAGE ARTS 9 HONORS

This freshman honors English course invites students to explore a variety of diverse and complex texts organized into thematic units. Students will engage in literary analysis and inferential evaluation of great texts, both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, honors students will master comprehension, use evidence to conduct in-depth literary analysis, and examine and critique how authors develop ideas in a variety of genres. Interwoven throughout the lessons are activities that encourage students to strengthen their oral language skills, research and critically analyze sources of information, and produce clear, coherent writing. In addition to activities offered to students in core courses, honors students are given additional opportunities to create and to participate in project-based learning activities, including writing a Shakespearian sonnet and creating an original interpretation of a Shakespearian play. Honors students will read a range of classic texts, including Homer's *The Odyssey*, Shakespeare's *Romeo and Juliet*, Jack London's "To Build a Fire" and Richard Connell's "The Most Dangerous Game." Students will also read Sue Macy's full length nonfiction work *Wheels of Change: How Women Rode the Bicycle to Freedom (With a Few Flat Tires Along the Way)*, and will study a variety of short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan. Contemporary texts by Richard Preston, Julia Alvarez, and Maya Angelou round out the course.

LANGUAGE ARTS 10 HONORS

This sophomore-year honors English course provides engaging and rigorous lessons with a focus on academic inquiry to strengthen knowledge of language arts. Honors reading lessons require analyzing complex texts, while

concise mini-lessons advance writing and research skills to craft strong, compelling essays and projects. Students will write argumentative and analytical essays based on literary texts, as well as an informative research paper using MLA style. Throughout the course, students read a range of classic and contemporary literary texts including Henrik Ibsen's *A Doll's House*, George Orwell's *Animal Farm*, and Marjane Satrapi's *Persepolis*. In addition to reading a wide range of literary texts, students read and analyze complex informational and argumentative texts including Sonia Sotomayor's "A Latina Judge's Voice," Niccol Machiavelli's *The Prince*, and the contemporary informational text *Sugar Changed the World: A Story of Magic, Spice, Slavery, Freedom, and Science*.

LANGUAGE ARTS 11 HONORS

This junior-year honors English course invites students to delve into American literature from early American Indian voices through contemporary works. Students will engage in literary analysis and inferential evaluation of great texts, including the full-length novel, *The Awakening* by Kate Chopin. While critically reading fiction, poetry, drama, and expository nonfiction, honors students will master comprehension, use evidence to conduct in-depth literary analysis, and examine and critique how authors develop ideas in a variety of genres. Interwoven throughout the lessons are activities that encourage students to strengthen their oral language skills, research and critically analyze sources of information, and produce clear, coherent writing. To round out the course, students will read a range of short but complex texts, including Henry David Thoreau's essay "Civil Disobedience," Floyd Dell's drama *King Arthur's Socks*, and works by Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers.

LANGUAGE ARTS 12 HONORS

This senior-year honors English course invites students to delve into British literature, from ancient texts such as the epic of Beowulf through contemporary works. Students will engage in a variety of rigorous lessons with a focus on academic inquiry, literary analysis, and inferential evaluation. While critically reading fiction, poetry, drama, and expository nonfiction, honors students will master comprehension, use evidence to conduct in-depth literary analysis, examine and critique how authors develop ideas in a variety of genres, and synthesize ideas across multiple texts. In addition to activities offered to students in core courses, honors students are given additional opportunities to create and participate in project-based learning activities, including creating a time travel brochure and an original interpretation of William Shakespeare's *The Tragedy of Hamlet*. Honors students will read a range of classic texts, including Robert Louis Stevenson's *The Strange Case of Dr. Jekyll and Mr. Hyde*, "Politics and the English Language" by George Orwell, and William Shakespeare's *The Tragedy of Hamlet*. In addition to full length works, students will read a variety of excerpts, including readings from *Lord of the Rings: The Fellowship of the Ring*, *The Smithsonian's History of America in 101 Objects*, and Chaucer's *The Canterbury*

Tales, as well as a variety of short fiction, speeches, and poetry.

SCIENCE

BIOLOGY HONORS

This compelling full-year course engages students in a rigorous honors-level curriculum that emphasizes the study of life and its real-world applications. This course examines biological concepts in more depth than general biology and provides a solid foundation for collegiate-level coursework. Course components include biochemistry, cellular structures and functions, genetics and heredity, bioengineering, evolution, structures and functions of the human body, and ecology. Throughout the course, students participate in a variety of interactive and hands-on laboratory activities that enhance concept knowledge and develop scientific process skills, including scientific research and technical writing.

CHEMISTRY HONORS

This rigorous full-year course provides students with an engaging honors-level curriculum that emphasizes mathematical problem solving and practical applications of chemistry. Topics are examined in greater detail than general chemistry in order to prepare students for college-level coursework. Course components include atomic theory and structure, chemical bonding, states and changes of matter, chemical and redox reactions, stoichiometry, the gas laws, solutions, acids and bases, and nuclear and organic chemistry. Throughout the course, students participate in a variety of interactive and hands-on laboratory activities that enhance concept knowledge and develop scientific process skills, including scientific research and technical writing.

PHYSICS HONORS

This rigorous full-year course provides students with an engaging honors-level curriculum that emphasizes abstract reasoning and applications of physics concepts to real-world scenarios. Topics are examined in greater detail than general physics and provide a solid foundation for collegiate-level coursework. Course components include one- and two-dimensional motion, momentum, energy and thermodynamics, harmonic motion, waves, electricity, magnetism, and nuclear and modern physics. Throughout the course, students participate in a variety of interactive and hands-on laboratory activities that enhance concept knowledge and develop scientific process skills, including scientific research and technical writing.

SOCIAL STUDIES

ECONOMICS HONORS

From creating graphs to reach equilibrium to learning to manage a bank account, students will take part in a more rigorous semester long study of the principles and processes of economics in the American system. Students begin with an introduction of basic economic concepts then move on to an in-depth study of microeconomic principles. Students showcase their understanding of

supply, demand, and economic choices by completing a case study on starting a business. Students then turn to macroeconomic concepts, government policies, and entrepreneurship. With this foundation, students create a proposal for public policies and programs in a small developing nation. Students continue their study of Economics by examining global economic concepts such as trade barriers and agreements. This Honors course concludes with a unit on personal finance. Students will learn more about topics such as taxation, financial institutions, credit, and money management. Students extend their knowledge of personal financial planning by creating a successful budget. Throughout the course, economic theory is introduced, demonstrated, and reinforced through real-life scenarios and examples. In assignments and project-based lessons, students learn to apply critical thinking skills while making practical economic choices.

HUMAN GEOGRAPHY HONORS

Examining current global issues that impact our world today, this course takes a thematic approach to understanding the development of human systems, human understanding of the world, and human social organization. Divided into two semesters, this high school-level course will challenge students to develop geographic skills, including learning to interpret maps, analyze data, and compare theories. Offering interactive content that will grow students' understanding of the development of modern civilization and human systems—from the agricultural revolution to the technological revolution—this course encourages students to analyze economic trends as well as compare global markets and urban environments.

SURVEY OF UNITED STATES HISTORY HONORS

From the first colonial settlements through today's society, students will embark on a more rigorous yearlong study of our nation's history. Students investigate the economic, political, and social revolutions that have transformed our country into the nation it is today. Units progress through the course by taking an in-depth look at events such as those surrounding the creation of the Constitution, the Civil War, our nation's involvement in World War I and II, as well as cultural aspects of our society. From writing about life in the colonies to analyzing landmark Supreme Court decisions, students are better equipped to compare what happened in yesterday's world with what is going on in our modern era. Throughout this Honors course, students continuously analyze primary and secondary sources relating to the period of study. Incorporating activities from other disciplines gives students the opportunity to connect history to other subjects. Students read excerpts from novels like Upton Sinclair's *The Jungle*, and poetry such as "The New Colossus" by Emma Lazarus. Activities such as writing a petition and analyzing various Presidents' speeches encourage students to perform throughout the course at a higher level.

SURVEY OF WORLD HISTORY HONORS

From the first civilizations through today's society,

students will embark on a more rigorous yearlong study of our world's history. Students investigate classical civilizations in the Middle East, Africa, Europe, and Asia while exploring the economic, political, and social revolutions that have transformed human history. Units progress through the course by touching on world wars, imperialism, and cultural aspects of each region's society. From creating an explorer's notebook to mapping out how Europe changed after World War II, students are better equipped to compare what happened in yesterday's world with what is going on in our modern era. Throughout this Honors course, students continuously analyze primary and secondary sources relating to the region and era of study. Incorporating activities from other disciplines gives students the opportunity to connect history to other subjects. Students read excerpts from novels such as Charles Dickens' *Hard Times* and excerpts from memoirs like that of Ji-li Jiang's, titled *Red Scarf Girl*. Projects such as writing a summary of a current event based on an ancient religion encourage students to perform throughout the course at a higher level.

MODERN WORLD STUDIES HONORS

In this advanced course, students investigate the history of the world from approximately 1870 to the present. They begin with an analysis of events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students undertake an in-depth examination of both the staggering problems and astounding accomplishments of the 20th, with a focus on political and social history. Students also explore advanced topics in physical and human geography, and investigate issues of concern in the contemporary world. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting research. Students complete independent projects each semester.

UNITED STATES GOVERNMENT HONORS ●

From the origins of democracy through our nation's public policies, students will take part in a more rigorous semester long study of the principles and procedures of the United States' government. Students begin by taking an in-depth look at the creation of the Constitution and analyze the Amendments contained therein. Supreme Court cases that have challenged what our constitutional rights are and their lasting impact is the next topic covered in the course. Students then study the structure and duties of our government, including writing an informative essay about a federal agency. Students then explore the duties of an American citizen and finally examine the various public policies our government is responsible for. From writing about the purpose of government to analyzing landmark Supreme Court decisions, students are better equipped to understand how the federal, state, and local governments work as well as how citizens should engage with each other in today's society. Throughout this Honors course, students continuously analyze primary and secondary sources,

including political cartoons, essays, and judicial opinions. Projects such as creating a political cartoon and taking part in a debate about voter ID laws encourage students to perform throughout the course at a higher level.

UNITED STATES HISTORY I HONORS

From the first colonial settlements through the Gilded Age and industrialization, students will embark on a more rigorous yearlong study of the beginnings of our nation's history. Students investigate the political, social, cultural, intellectual, and technological revolutions of the United States that have helped to lay the foundation of our country. Units progress through the course by starting with an in-depth look at the first settlements and European explorations that eventually led to colonization. Students study the events and outcomes of the American Revolution, as well as the creation of the Constitution and the beginnings of our government. Manifest destiny and slavery are the next topics students analyze that lead into a closer look at the Civil War and how it changed our nation. From writing about the Lincoln-Douglas debates to analyzing the effects of immigration and urbanization, students are better equipped to understand what happened during our nation's beginnings. Throughout this Honors course, students continuously analyze primary and secondary sources relating to the period of study. Incorporating activities from other disciplines gives students the opportunity to connect history to other subjects. Students read selections like "Your People Live Only Upon Cod," and poetry such as "The New Colossus" by Emma Lazarus. Activities such as writing a personal narrative as either a slave or newly freed person and analyzing a report on child labor encourage students to perform throughout the course at a higher level.

UNITED STATES HISTORY II HONORS

From the Industrial Revolution through today's society, students will embark on a more rigorous yearlong study of our country's modern history. Students investigate the economic, political, and social revolutions that have transformed our country into the nation it is today. Units progress through the course by taking an in-depth look at events such as those surrounding our nation's expansion westward, civil rights in various eras, our nation's involvement in World War I and II, as well as cultural aspects of our society. From analyzing landmark Supreme Court decisions to writing about advancements in technology, students are better equipped to compare what happened in yesterday's world with what is going on in our modern era. Throughout this Honors course, students continuously analyze primary and secondary sources relating to the period of study. Incorporating activities from other disciplines gives students the opportunity to connect history to other subjects. Students read excerpts from novels like Upton Sinclair's *The Jungle*, and Geronimo's autobiography, *Story of His Life*. Activities such as writing about how the frontier is part of America's history and national character and analyzing various Presidents' speeches encourage students to perform throughout the course at a higher level.

World Languages

MIDDLE SCHOOL

MIDDLE SCHOOL SPANISH 1

This asynchronous course introduces students to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

MIDDLE SCHOOL SPANISH 2

This asynchronous course continues the introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish speaking areas in Europe and the Americas.

MIDDLE SCHOOL FRENCH 1

This asynchronous course begins the introduction to French with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and across the globe.

MIDDLE SCHOOL FRENCH 2

This asynchronous course continues the introduction to French with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and across the globe.

MIDDLE SCHOOL GERMAN 1

This asynchronous course begins the introduction to German with fundamental building blocks in four key areas of foreign language study: listening comprehension,

speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major German-speaking areas in Europe.

MIDDLE SCHOOL GERMAN 2

This asynchronous course continues the introduction to middle school German by covering fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major German speaking areas in Europe.

MIDDLE SCHOOL CHINESE 1

This asynchronous course begins the introduction to Chinese with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

MIDDLE SCHOOL CHINESE 2

This asynchronous course continues the introduction to Chinese with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

MIDDLE SCHOOL LATIN 1

This asynchronous course begins the introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

MIDDLE SCHOOL LATIN 2

This asynchronous course continues the introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a

new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

HIGH SCHOOL

HIGH SCHOOL FRENCH I

This asynchronous course begins the introduction to French with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and across the globe.

HIGH SCHOOL FRENCH II

This asynchronous course continues the introduction to French in this second-year, high school language course with review of fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major French speaking areas across the globe, and assessments.

HIGH SCHOOL FRENCH III

This asynchronous course engages high school students to deepen their focus on four key skills in foreign language acquisition: listening comprehension, speaking, reading, and writing. In addition, students read significant works of literature in French and respond orally or in writing to these works. Continuing the pattern and building on what students encountered in the first two years, each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and the Americas.

HIGH SCHOOL FRENCH 3

This course has a weekly synchronous component. French 3 is designed to build upon skills learned in French 2 and to prepare learners to communicate further using reading, writing, speaking, and listening. Learners in this course will further their grammar skills to be able to communicate in other verb tenses and build skills that require more explanation. Learners will also build upon thematic vocabulary dealing with getting oneself ready, hobbies, shopping, etc. Furthermore, learners will expand their knowledge of French culture. Learners will complete hands-on activities and innovative assignments to achieve the Can-Do statements laid out in the

coursework.

HIGH SCHOOL FRENCH 4

This course has a weekly synchronous component. French 4 is designed to develop an authentic and practical understanding of the French language and culture. Learners will have the ability to express their thoughts, feelings, and opinions in the target language within more nuanced real-life situations and learning scenarios. All new concepts will be introduced in context while incorporating various listening, speaking and writing activities. Furthermore, level 4 language learning will be individualized to meet the goals of the learners' pertaining to their career and travel aspirations.

HIGH SCHOOL ARABIC 1

This course has a weekly synchronous component. By the end of Arabic 1, learners will master the Arabic alphabet and sound system, be able to distinguish and pronounce all Arabic sounds, write accurately from dictation, comprehend simple print/audio/video texts on familiar topics, and compose simple paragraphs about themselves and their families and friends. Learners will know the differences between formal and spoken Arabic, recognize both registers, and be able to use basic expressions in at least one dialect.

HIGH SCHOOL ARABIC 2

This course has a weekly synchronous component. In Arabic 2, learners strengthen previously acquired writing skills and use of the symbols of the Arabic language. In addition, they will build the following skills: 1) Tell a story or anecdote (oral and written) using complex sentences, 2) Describe themselves and others, including past activities and future plans, and 3) Speak extemporaneously to a topic studied during the semester. Learners will be able to answer questions and maintain a conversation with a native speaker about basic topics such as their city, family, interests, studies, likes and dislikes etc... Further, learners will be able to contrast and compare English and Arabic by translating sentences and short paragraphs.

HIGH SCHOOL ARABIC 3

This course has a weekly synchronous component. Arabic 3 learners will be able to speak about themselves and their environment, initiate and sustain conversations on a number of topics (e.g. family, friends, studies, etc.) as well as narrate in present, past and future tenses. Learners will also be able to ask and answer most questions in Arabic, read texts on familiar topics and understand the main ideas without using the dictionary. Learners will be able to write about daily life, short letters and essays. As they build on their language skills, learners will become familiar with various aspects of Arab culture, such as social and religious customs and traditions.

HIGH SCHOOL ARABIC 4

This course has a weekly synchronous component. Arabic 4 learners will build on the skills they acquired in previous levels of Arabic, while applying those to more complex scenarios and texts. At this level, learners will be able to comprehend several dialects, even if they sound slightly

different from what learners are accustomed to. As learners amass a larger body of vocabulary and cultural knowledge, they will begin to read some authentic Arabic literature/poetry as well as contemporary social media in order to interact with Arabic speakers in authentic situations. At level 4, language learning will be individualized to meet the goals of the learners' pertaining to their career and travel aspirations.

HIGH SCHOOL CHINESE I

This asynchronous course begins the introduction to Chinese with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

HIGH SCHOOL CHINESE II

This asynchronous course continues the introduction to Chinese in this second-year course with review of fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

HIGH SCHOOL CHINESE 3

This course has a weekly synchronous component. Chinese 3 is designed to build upon skills learned in Chinese 2 and prepare learners to communicate further using reading, writing, speaking, and listening. Learners in this course will further their grammar skills to be able to communicate in other verb tenses and build skills that require more explanation. Learners in this course will also build upon thematic vocabulary dealing with areas of specific interest to the learners. Furthermore, learners will expand their knowledge of Chinese culture. Learners will complete hands-on activities and innovative assignments to achieve the Can-Do statements laid out in the coursework.

HIGH SCHOOL CHINESE 4

This course has a weekly synchronous component. Chinese 4 is designed to bring nuance to an authentic and practical understanding of the Chinese language and culture. Learners will have the ability to express their thoughts, feelings, and opinions in the target language within more complex real-life situations and learning scenarios. All new concepts will be introduced in context while incorporating various listening, speaking and writing activities. Furthermore, learners will expand their knowledge of Chinese culture. Learners will complete hands-on activities and innovative assignments to achieve the Can-Do statements laid

out in the coursework. Language learning at this level will be individualized to meet the goals of the learners' pertaining to their career and travel aspirations.

HIGH SCHOOL LATIN I

This asynchronous course begins the introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

HIGH SCHOOL LATIN II

This asynchronous course continues the introduction to high school Latin by continuing to cover the fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, a notable ancient myth in Latin, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments

HIGH SCHOOL LATIN 3

This course has a weekly synchronous component. Latin 3 builds upon skills and concepts developed in Latin 1 and Latin 2. With that in mind, Latin 3 is tailored to meet the learners' needs and interests. In Latin 3, learners will 1) strengthen knowledge of Latin syntax and vocabulary for the purpose of better translation and understanding of Latin authors' ideas, and 2) improve upon communication in the English language by comparison. Projects based on these objectives will also contain a cultural component related to a historical time period (Roman Republic, Empire, etc.) Readings from Latin authors focus on history and culture.

HIGH SCHOOL LATIN 4

This course has a weekly synchronous component. Latin 4 builds on knowledge of Latin vocabulary, grammar, and Roman culture. This knowledge will apply to original Latin texts. Those texts are the poetry of Vergil and other poets; prose passages from Medieval Latin; and a tiny bit of philosophy. Latin 4 mainly emphasizes reading and writing, but listening and speaking are also practiced. Furthermore, in level 4, language learning will be individualized to meet the goals of the learners' pertaining to their career and travel aspirations.

HIGH SCHOOL GERMAN I

This asynchronous course begins the introduction to German with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous

interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major German-speaking areas in Europe.

HIGH SCHOOL GERMAN II

This asynchronous course continues the introduction to high school German in this second-year course with review of fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major German speaking areas in Europe.

HIGH SCHOOL GERMAN 3

This course has a weekly synchronous component. German 3 is designed to build upon skills learned in German 2 and prepare learners to communicate further using reading, writing, speaking, and listening. Learners in this course will build upon thematic vocabulary dealing with media, transportation, hypothetical situations, shopping etc. Throughout the course, learners will develop the ability to communicate in multiple tenses. Intercultural understandings are embedded in the course using a variety of media, discussions and by referring to the variety of greetings, driving rules, and routine tasks in German-speaking countries. Learners will complete hands-on activities and innovative assignments to achieve the Can-Do statements laid out in the course.

HIGH SCHOOL GERMAN 4

This course has a weekly synchronous component. German 4 is designed to continue developing an authentic and practical understanding of the German language and culture. Learners will have the ability to understand and use nuanced vocabulary in real-life situations and learning scenarios. They will be able to use a variety of cultural terms and to talk about cultural issues, such as environment, health, college life, etc. All new concepts will be introduced in context while incorporating various listening, speaking and writing activities. Level 4 language learning will be individualized to meet the goals of the learners' pertaining to their career, travel and higher education goals.

HIGH SCHOOL JAPANESE 1

This course has a weekly synchronous component. Japanese 1 is designed to develop an authentic and practical understanding of the Japanese language and culture. Learners will become familiar with the Japanese phonetic symbols, Hiragana, and Katakana, be able to distinguish and pronounce Japanese sounds, write accurately from dictation, and comprehend simple print/audio/video texts on familiar topics. Learners will have the ability to greet and to introduce themselves and their family members as well as talk about likes and dislikes. Learners will learn how to form simple sentences by using affirmative and negative verbs in the present

tense to describe daily activities such as going to school, watching movies, and eating foods. All new concepts will be introduced in context while incorporating various listening, speaking and writing activities. Cultural topics will also be introduced throughout.

HIGH SCHOOL JAPANESE 2

This course has a weekly synchronous component. Japanese 2 is designed to build upon skills learned in Japanese 1 and prepare learners to expand their ability to communicate in Japanese. This course will focus on conversational skills. Learners will learn the negative and affirmative of the past tense of verbs, nouns, and adjectives. By the end of the course, learners will be able to talk about their environment, including providing the date, talking about going on an outing, and describing activities that might take place in the present and past tenses. Cultural topics will be incorporated throughout.

HIGH SCHOOL JAPANESE 3

This course has a weekly synchronous component. Japanese 3 is designed to build upon skills learned in Japanese 2 and prepare learners to communicate further using reading, writing, speaking, and listening. Learners will further their grammar skills to be able to communicate in more complex sentence structure. Learners in this course will develop the language skills to talk about travel, food, shopping, etc. Furthermore, learners will expand their knowledge of Japanese culture as they complete hands-on activities and innovative assignments to achieve the Can-Do statements laid out in the coursework. Cultural topics will be incorporated throughout.

HIGH SCHOOL JAPANESE 4

This course has a weekly synchronous component. Japanese 4 is designed to develop an authentic and practical understanding of the Japanese language and culture. Learners will have the ability to express their thoughts, feelings, and opinions in the target language within basic, real-life situations and learning scenarios. All new concepts will be introduced in context while incorporating various activities with an emphasis on writing skills. Furthermore, level 4 language learning will be individualized to meet the goals of the learners' pertaining to their career and travel aspirations.

HIGH SCHOOL PORTUGUESE 1

This course has a weekly synchronous component. Portuguese 1 is an introductory course to the Portuguese language, with an emphasis on Portuguese spoken in Brazil. Using authentic resources, learners will listen and follow along with real situations and conversations spoken in the country of Brazil. Learners will be exposed to a variety of cultural artifacts while learning the language, including contemporary language and customs. Learners will be able to speak, read, listen, and write at the novice low proficiency level as defined by ACTFL. By the conclusion of this course, learners will be able to introduce themselves, describe themselves (and others), talk about school and extracurricular activities, and order food from a menu in Portuguese.

HIGH SCHOOL PORTUGUESE 2

This course has a weekly synchronous component. Portuguese 2 continues to build upon language learning from Portuguese 1. Learners will continue to develop their reading, writing, speaking, and listening skills in the Portuguese language and work towards acquiring a higher proficiency. Learners will continue to explore authentic and relevant resources from Brazil that infuse cultural practices and products into the course. By the end of this course, learners will be able to engage in interpersonal communication comfortably around topics such as families, homes, traveling, transportation, and the human body.

HIGH SCHOOL SPANISH I

This asynchronous course begins the introduction to high school Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

HIGH SCHOOL SPANISH II

This asynchronous course continues the introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major Spanish speaking areas in Europe and the Americas, and assessments.

HIGH SCHOOL SPANISH III

This asynchronous course expands engagement with Spanish. High school students deepen their focus on four key skills in foreign language acquisition: listening comprehension, speaking, reading, and writing. In addition, students read significant works of literature in Spanish and respond orally or in writing to these works. Continuing the pattern and building on what students encountered in the first two years, each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

HIGH SCHOOL SPANISH 3

This course has a weekly synchronous component. Spanish 3 is designed to build upon skills learned in Spanish 2 and prepare learners to communicate further using reading, writing, speaking, and listening. Learners in this course

will further their grammar skills to be able to elaborate on events and narrate stories in the past tenses. Learners in this course will also build upon thematic vocabulary dealing with traveling, food, shopping, etc. Intercultural understandings are embedded throughout the course using a variety of media and discussions. Learners will complete hands-on activities and innovative assignments to achieve the Can-Do statements laid out in the coursework.

HIGH SCHOOL SPANISH 4

This course has a weekly synchronous component. Spanish 4 is designed to develop an authentic and practical understanding of the Spanish language and culture. Learners will have the ability to express their thoughts, feelings, and opinions in the target language within more nuanced real-life situations and learning scenarios. All new concepts will be introduced in comprehensible context while incorporating various listening, speaking and writing activities using authentic, relevant, and engaging learning opportunities. At this level, language learning will be individualized to meet the goals of the learners' pertaining to their career and travel aspirations.

Electives

ADVERTISING AND SALES PROMOTION

What comes to mind when you think of marketing? Does a favorite commercial jingle begin to play in your head? Or do you recall the irritating phone call from a company trying to sell you software you already have? No matter what your feelings are about it, there's no denying the sheer magnitude of the marketing industry. Every year companies spend \$200 billion promoting their products and services—and that's in the United States alone! Experts estimate that by the time you turn 65, you will have seen nearly 2 million TV commercials, not to mention radio ads, billboards, and online advertisements. You're familiar with what it's like on the receiving end of a company's marketing efforts, but what's it like on the other side? In this Advertising and Sales Promotions one semester course, you'll learn how marketing campaigns, ads, and commercials are conceived and brought to life. You'll meet some of the creative men and women who produce those memorable ads and commercials. And you'll discover career opportunities in the field to help you decide if a job in this exciting, fast-paced industry is in your future! *Requires a digital camera or camera phone.

AFRICAN-AMERICAN HISTORY

How have African Americans shaped the culture of the United States throughout history? Tracing the accomplishments and obstacles of African Americans from the slave trade through emancipation, and to the modern African diaspora, you will learn about the political, economic, social, religious, and cultural factors that have influenced African American life. In African American History, you'll come face to face with individuals who changed the course of history and learn more about slavery, the Civil Rights Movement, and the many contributions of the African American community to

American life. You will also explore how the history of African Americans influences current events today in this semester long course

AGRIBUSINESS SYSTEMS

Agribusiness Systems is a semester long high school course that introduces the business, management, marketing, and financial skills needed to successfully produce food, fiber, and fuel for domestic and global markets. Students learn about the components of the agribusiness system and how they interact to deliver food to our tables. They also learn about the key elements of a successful agribusiness enterprise: economics, financial management, marketing and sales, and government policies and regulations.

AGRISCIENCE I: INTRODUCTION TO AGRISCIENCE

In this semester long course, students will learn more about the development and maintenance of agriculture, animal systems, natural resources, and other food sources. Students will also examine the relationship between agriculture and natural resources and the environment, health, politics, and world trade.

AGRISCIENCE II: SUSTAINING HUMAN LIFE

Science and technology are revolutionizing many areas of our lives, and agriculture is no exception! From aquaculture to genetic engineering, agriscience is finding new ways to better produce and manage plants, from the field to the garden. In the semester-long Agriscience II, you'll build on your existing knowledge of plant science and delve deeper into important areas such as soil science and weed management. You'll learn more about horticulture and plant science trends from creating hybrid species to growing edible plants in unlikely places. *Requires

- Plant seeds or cuttings
- Growing media
- Growing container
- A sharp blade and rooting hormone, depending on the plant you choose
- Soil or other growing media
- Soil test kit
- 2-3 pots
- Seeds of your choice (make sure your growing medium is appropriate for the seed you chose)
- Plant
- Pest management materials (vary based on chosen strategy)

ANIMAL SYSTEMS

Animal Systems is a semester-long high school course that provides students with a wealth of information on livestock-management practices, animal husbandry, physiological systems, the latest scientific trends, veterinary practice, and innovations in food production. Changes in practices, regulations, and legislation for animal welfare continue as new research provides solutions to medical, ethical, and practical concerns. The course reviews current topics, such as advancements in technology and research, and defines areas of discussion while maintaining focus on best-management practices.

A student might use the knowledge gained from the course to further an interest in becoming a chef, researcher, doctor, wildlife-management professional, or any number of applicable careers.

ANIMATION

Do you wonder what it would be like to create the next blockbuster animated movie or do you want to make the next big video game? Do you have an eye for drawing, technology, and timing? If so, Animation is the course for you! You will learn how to use animation tools to conceptualize and bring your creations to life. You'll learn the ins and outs of creating 2D and 3D animation, from start to finish in this semester long course. You'll even begin working on our own design portfolio and get hands on experience with creating your own animation projects. Learning about Animation could lead to a thriving career in the growing world of technology and animation. Required materials: The following free, cross-platform programs will need to be downloaded for use during the course (programs will run on Windows XP and higher, Linux, and Mac computers, not tablets or phones):

- Tupi 2D Magic
- Blender
- DaVinci Resolve
- Materials Required for Unit 1:
- Modeling clay (optional)
- Camera (can be an actual camera or a camera on a tablet or device)
- Scissors
- Stiff paper or cardboard
- Glue or tape
- Thumbtack or pushpin
- Mirror

ANTHROPOLOGY I: UNCOVERING HUMAN MYSTERIES

The aim of anthropology is to use a broad approach to gain an understanding of our past, present and future, and in addition address the problems humans face in biological, social and cultural life. This semester-long course will explore the evolution, similarity and diversity of humankind through time. It will look at how we have evolved from a biologically and culturally weak species to one that has the ability to cause catastrophic change. Exciting online video journeys to different areas of the anthropological world are just one of the powerful learning tools utilized in this course.

ANTHROPOLOGY II: MORE HUMAN MYSTERIES UNCOVERED

Anthropology has helped us better understand cultures around the world and through different time period. This semester-long course continues the study of global cultures and the ways that humans have made sense of their world. We will examine some of the ways that cultures have understood and gave meaning to different stages of life and death. The course will also examine the creation of art within cultures and examine how cultures evolve and change over time. Finally, we will apply the concepts and insights learned from the study of anthropology to several cultures found in the world today.

ARCHAEOLOGY: DETECTIVES OF THE PAST

George Santayana once said, "Those who cannot remember the past are condemned to repeat it." The field of archaeology helps us to better understand the events and societies of the past that have helped to shape our modern world. This semester-long course focuses on this techniques, methods, and theories that guide the study of the past. Students will learn how archaeological research is conducted and interpreted, as well as how artifacts are located and preserved. Finally, students will learn about the relationship of material items to culture and what we can learn about past societies from these items.

ART HISTORY I

Introducing art within historical, social, geographical, political, and religious contexts for understanding art and architecture through the ages, this full-year course offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions. Students enrolled in this course cover topics including early medieval and Romanesque art; art in the twelfth, thirteenth, and fourteenth centuries; fifteenth-century art in Europe; sixteenth-century art in Italy; the master artists; High Renaissance and baroque art; world art, which includes the art of Asia, Africa, the Americas, and the Pacific cultures; eighteenth- and nineteenth-century art in Europe and the Americas; and modern art in Europe and the Americas.

ASTRONOMY: EXPLORING THE UNIVERSE

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe that surrounds us. This semester-long course will introduce students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students will examine the life cycle of stars, the properties of planets, and the exploration of space.

BANKING SERVICES CAREERS

Banking Services Careers is a semester-long high school course that provides an overview of how the banking system works, what the Federal Reserve is, and the technical and social skills needed to work in banking and related services. Students explore career paths and the required training or higher education necessary and gain an understanding of the basic functions of customer transactions (e.g., setting up an account, processing a loan, establishing a business), cash drawer activity, check collection processes, and other customer service-related transactions. This course also discusses how technology has changed banking in the 21st century. The banking industry is responsible for many of the products that we use on a daily basis, from checking and savings accounts to debit cards, credit cards, and loans.

BIOTECHNOLOGY: UNLOCKING NATURE'S SECRETS

Can we bring back extinct species? Will the cures for cancer, malaria, and other diseases come from the combination of natural materials and new technologies? How is science changing the foods we eat? Welcome to the world of biotechnology! In this semester-long course, you will explore the history of biotechnology, including early attempts at food preservation, the development of antibiotics, and changes to food crops around the world. You'll also learn more about some of the challenges of biotechnology, such as the growth of antibiotic resistant bacteria and questions about the safety of commercially produced genetically modified organisms (GMOs). Finally, you'll research new biotechnologies and how they are changing the world we live in.

BUSINESS COMPUTER INFORMATION SYSTEMS

Business Computer Information Systems is a year-long course that explores the use of technology applications in both business and personal situations. The course provides key knowledge and skills in the following areas: communication, business technology, word processing, spreadsheet, and database applications, telecommunications, desktop publishing, and presentation technology, computer networks, and computer operating systems.

BUSINESS LAW

This semester-long high school course is designed to provide students with the knowledge of some of the vital legal concepts that affect commerce and trade, after first gaining some familiarity with how laws are created and interpreted. Students are then introduced to the types of businesses that can be created as well as the contractual and liability considerations that can impact a business. Laws that affect how a business is regulated are reviewed, particularly the impact of administrative rules and regulations on a business. Global commerce and international agreements, treaties, organizations, and courts are discussed to get a better sense of what it means to "go global" with a business. Dispute resolution strategies are also addressed.

CAREER EXPLORATIONS

This year-long course prepares middle school students to make informed decisions about their future academic and occupational goals. Through direct instruction, interactive skill demonstrations, and practice assignments, students learn how to assess their own skills and interests, explore industry clusters and pathways, and develop plans for career and academic development. This course is designed to provide flexibility for students; any number of units can be selected to comprise a course that meets the specific needs of students.

CAREER EXPLORATIONS I

Career Explorations I is a semester long course designed to give middle school students an opportunity to explore various CTE subjects. Specifically, students learn about careers involving human-related services. Each of the five units introduce one particular field and explains its past, present, and future. These units include: Career Management, Introduction to Careers in Health Sciences,

Hospitality and Tourism Systems, Human Services, and Consumer Services. The goal is to whet students' appetites for these careers. Students can then explore that career in more detail as a high school student.

*Requires Computer with:

- Word document program
- Slideshow program
- Pictures or images for slideshows
- Job Application Form for U8 (downloaded from internet)
- Camera with video recording
- Calculator
- Poster board for U3 Assessment Job Board
- Printed images for U3 Assessment Job

CAREER EXPLORATIONS II

Career Explorations II is a semester long course designed to give middle school students an opportunity to explore various CTE subjects. Specifically, students learn about careers involving various technical fields from computers to agriculture. Each of the five units introduces one particular field and explains its past, present, and future. These Career and Technical Education units include: Information Technology, Introduction to Information Support and Services, Introduction to Network Systems, Introduction to Agriculture, Food, and Natural Resources, and Introduction to STEM (Science, Technology, Engineering, and Mathematics). The goal is to whet students' appetites for these careers. Students can then explore that career in more detail as a high school student.

CAREER EXPLORATIONS III

Career Explorations III is a semester long course designed to give middle school students an opportunity to explore various CTE subjects. Specifically, students learn about careers from business to hands-on career paths. Each of the five unit introduces one particular field and explains its past, present, and future. These units include: Introduction to Business and Finance, Introduction to Manufacturing, Introduction to Transportation, Distribution, and Logistics, Introduction to Architecture and Construction, and Introduction to Marketing. The goal is to whet students' appetites for these careers. Students can then explore that career in more detail as a high school student.

CAREERS IN ALLIED HEALTH

This semester-long course focuses on select allied health careers, studying a variety of different levels of responsibilities, settings, education needs and amounts of patient contact. The course includes an overview of the degree or training needed for each job, the environment one would work in, how much money the position would make, and the facts of the actual working day. Within each job type, students explore important aspects applicable to the entire field of allied health, such as behaving ethically, working as a team, keeping patients safe and free from infections and germs, honoring diverse needs of diverse patients, and following laws and policies.

CAREERS IN CRIMINAL JUSTICE

The criminal justice system offers a wide range of career opportunities. In this semester long course, students will explore different areas of the criminal justice system, including the trial process, the juvenile justice system, and the correctional system.

CAREERS IN LOGISTICS PLANNING AND MANAGEMENT SERVICES

Careers in Logistics Planning and Management Services is a semester-long course that provides high school students with the history of logistics and recent advances in the field. Units include supply chain management, inventory and transportation management, and safety in the workplace. Logistics is a high-growth industry and stable career choice. There is something for every career-seeker, ability, and experience level. The objectives of this course are to introduce the student to the field of logistics planning and management and to explain the career opportunities that are available in this field.

CAREERS IN MARKETING RESEARCH

Marketing research is the foundation of all marketing activities because it provides the data needed to make key strategic decisions about products, promotions, pricing, and other key organizational decisions. Careers in Marketing Research is a semester-long high school course that provides information about the process of investigation and problem analysis by using research to produce key marketing statistics that are communicated to management and used throughout the organization. This course concludes with the execution, interpretation, and presentation of marketing research.

CAREER MANAGEMENT

Career Management is a semester length high school course that assists students in their preparation for career selection. The course is designed to improve workforce skills needed in all careers including communication, leadership, teamwork, decision making, problem solving, goal setting and time management. Students complete activities that help identify personal interests, aptitudes, and learning styles. Students use results of self-assessments to determine careers that may prove personally satisfying.

CAREER PLANNING AND DEVELOPMENT

Introducing high school students to the working world, this course provides the knowledge and insight necessary to compete in today's challenging job market. This relevant and timely course helps students investigate careers as they apply to personal interests and abilities, develop the skills and job search documents needed to enter the workforce, explore the rights of workers and traits of effective employees, and address the importance of professionalism and responsibility as careers change and evolve. This one semester course includes lessons in which students create a self-assessment profile, a cover letter, and a resume that can be used in their educational or career portfolio.

COMPUTER APPLICATIONS: OFFICE 2016

This full-year course introduces students to the features

and functionality of the most widely used productivity software in the world: Microsoft Office. Through video instruction, interactive skill demonstrations, and numerous hands-on practice assignments, students learn to develop, edit and share Office 2016 documents for both personal and professional use. By the end of this course, students will have developed basic proficiency in the most common tools and features of the Microsoft Office suite of applications: Word, Excel, PowerPoint, and Outlook. Required Materials: Students must have access to MS Office 2016 or Office 365

COMPUTER SCIENCE PRINCIPLES

Students will explore the foundations of computer science in this year-long course using videos, hands-on activities, programming, investigations, and projects. They will experience much of what computer programmers do in planning, developing, testing, and refining software. Security is a key topic, and students will learn techniques for recognizing and guarding against security threats. Every unit has two to three projects, giving students the opportunity not only to write programs, but also to develop security policies, analyze real-world data, solve network problems, plan a mobile app, and more. Interwoven throughout the course are spotlights on a wide variety of careers and roles in computer science. Students will need to access to Python to complete this course.

CONCEPTS OF ENGINEERING AND TECHNOLOGY

Each day, we are surrounded by technology and engineering projects. From our phones to the bridges we drive over, engineering and technology influence many parts of our lives. In the semester long Concepts of Engineering and Technology, you will learn more about engineering and technology careers and what skills and knowledge you'll need to succeed in these fields. You'll explore innovative and cutting-edge projects that are changing the world we live in and examine the design and prototype development process. Concepts of Engineering and Technology will also help you understand the emerging issues in this exciting career field.

CONSTRUCTION CAREERS

Construction Careers is a semester-long course that introduces high school students to the basics of construction, building systems, engineering principles, urban planning, and sustainability. Students learn the key techniques in building all types of buildings, as well as the key individuals involved in each step of the process. Many lessons present information on green building techniques and concepts that are becoming a standard part of the construction industry. Safety practices are emphasized in several lessons because construction is one of the most dangerous industries; students learn that there is no way to be successful in construction without taking such issues seriously. Lessons in this course also explore regulatory agencies and guidelines established for protecting not only construction workers but also the occupants of a building.

CORRECTIONS: POLICIES AND PROCEDURES ●

Corrections is one of the three branches of the Criminal Justice System (CJS) in the United States. All three branches employ personnel who are authorized to uphold and enforce the law and are required to operate under the rule of law. Each branch works as part of the entire system to maintain the public safety and well-being and bring criminals to justice. Corrections facilities and programs are run by a complex system of policies and procedures, which uphold local, state, and federal laws. Corrections: Policies and Procedures gives high school students an introductory, yet thorough view of many aspects of corrections operations. Students receive historical and legal background information as they study how prisons and prisoners have evolved into correctional facilities and programs for offenders. In this semester-long course duties, responsibilities, conduct, training, and special certification possibilities for corrections staff are explored. Many aspects of procedures in corrections are reviewed, giving students an in-depth look at what a variety of careers in this growing field encompass and require.

CREATIVE WRITING ●

For many hundreds of years, literature has been one of the most important human art forms. It allows us to give voice to our emotions, create imaginary worlds, express ideas, and escape the confines of material reality. Through creative writing, we can come to understand ourselves and our world a little bit better. This semester-long course provides students with a solid grounding in the writing process, from finding inspiration to building a basic story to using complicated literary techniques and creating strange hybrid forms of poetic prose and prose poetry. By the end of this course, students will learn how to discover their creative thoughts and turn those ideas into fully realized pieces of creative writing.

CRIMINOLOGY: INSIDE THE CRIMINAL MIND ●

In today's world, crime and deviant behavior rank at or near the top of many people's concerns. In this semester long course, we will study the field of Criminology – the study of crime. We will look at possible explanations for crime from the standpoint of psychological, biological and sociological perspectives, explore the categories and social consequences of crime, and investigate how the criminal justice system handles not only criminals, but also their misdeeds. Why do some individuals commit crimes why others do not? What aspects in our culture and society promote crime and deviance? Why are different punishments given for the same crime? What factors... from arrest to punishment...help shape the criminal case process?

CULINARY ARTS ●

Food is all around us—we are dependent on it and we enjoy it. This year-long course will give you the basic fundamentals to start working in the kitchen and gaining experience as you explore and establish your talents for cooking and preparing food in a creative and safe way. You will learn safety measures as well as enhance your knowledge of various types of foods and spices. If

you enjoy hands-on learning and want to deepen your knowledge about culinary arts, this is a great course to start. *Requires basic cooking utensils and ingredients.

CYBERSECURITY

We depend more and more on the technologies we interact with every day, and we put more and more of our personal data out there online. Can all of that data really be kept “secret”? We all need to know more about how to protect our personal information, especially given how much we rely on and use our network devices and media. You'll learn in this yearlong course about the various parts of your computer, how they work together, and how you can manipulate them to keep your data safe. You'll also dive into the tools, technologies, and methods that will help protect you from an attack and discover the many opportunities in the rapidly growing field of cybersecurity. *Requires

- Slide-show presentation program
- Word processing program
- Software: Virtual Box: <https://www.virtualbox.org/wiki/downloads>
- In order to run VirtualBox on your machine, you need:
 - CPU: Recent Intel or AMD processor
 - Memory: 2+GB RAM
 - Hard disk: About 4GB free hard disk space
 - Supported Operating System: Windows, Mac OS X, Linux, Solaris and OpenSolaris.

DIGITAL PHOTOGRAPHY I: CREATING IMAGES WITH IMPACT!

Have you ever wondered how photographers take such great pictures? Have you tried to take photographs and wondered why they didn't seem to capture that moment that you saw with your eyes? The Digital Photography I year-long course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will be introduced to the history of photography and basic camera functions. Students will use the basic techniques of composition and camera functions to build a portfolio of images, capturing people, landscapes, close-up, and action photographs.

Required materials:

- Manual camera or digital camera with manual settings (the camera needs to allow for the mode, shutter speed, and aperture to be adjusted) A Smartphone may be used for most required tasks, however, appropriate applications will need to be installed to allow the student to make the necessary adjustments to the camera mode, shutter speed, and aperture.
- Tripod (or necessary item(s) to create a stable foundation
- Reflector (white paper, poster board, sheets, or a wall)
- Image editing software
- Access to a slideshow application, such as PowerPoint

DIGITAL PHOTOGRAPHY II: DISCOVERING YOUR CREATIVE POTENTIAL

In today's world, photographs are all around us, including

in advertisements, on websites, and hung on our walls as art. Many of the images that we see have been created by professional photographers. In this semester long course, we will examine various aspects of professional photography, including the ethics of the profession, and examine some of the areas that professional photographers may choose to specialize in, such as wedding photography and product photography. We will also learn more about some of the most respected professional photographers in history and we will learn how to critique photographs in order to better understand what creates an eye-catching photograph.

Required materials:

- Digital camera: “point and shoot” or above. A Smartphone may be used for most required tasks, however, appropriate applications will need to be installed to allow the student to make the necessary adjustments to the camera mode, shutter speed, and aperture.
- One frame (of your choice) to display a photograph on the wall
- 3M strip (or something similar)
- Image editing software capable of the following:
 - Cropping
 - Changing a photo to black and white
 - Adjusting color and brightness
 - Resizing images
 - Applying filters and special effects like texture or glitter
 - Creating layers

EARLY CHILDHOOD EDUCATION ●

Want to have an impact on the most important years of human development? In this year-long course students will learn how to create fun and educational environments for children, how to keep the environment safe for children, and how to encourage the health and well-being of infants, toddlers, and school-aged children.

ENGINEERING AND DESIGN ●

This semester-long course focuses on building real-world problem-solving and critical thinking skills as students learn how to innovate and design new products and improve existing products. Students are introduced to the engineering design process to build new products and to the reverse engineering process, which enables engineers to adjust any existing product. Students identify how engineering and design have a direct impact on the sustainability of our environment and the greening of our economy. Finally, students incorporate the engineering design process, environmental life cycle, and green engineering principles to create a decision matrix to learn how to solve environmental issues.

ENGINEERING AND PRODUCT DEVELOPMENT ●

This semester-long course provides an overview of the concepts of product engineering and development. Students analyze the life cycle of a product to prepare a product for distribution and for target markets. The course begins with building an understanding of the product life cycle, from the initial idea to drafting requirements to using 3-D modeling tools and other design tools. The final

unit focuses on assembling the pieces within a project plan to achieve a product and evaluating the plans for a successful product launch. In addition, the course provides information about the different careers available to students interested in engineering, product development, and project management.

FAMILY AND COMMUNITY SERVICES ●

Family and Community Services is a high school semester-long course that introduces applications within professions related to family and community services. Students identify degree and credential requirements for occupations in this pathway and identify individual, social, historical, economic, and cultural context to increase awareness of family and community services. Students develop the abilities necessary to evaluate and identify a range of effective communication strategies and skills for establishing a collaborative relationship with others. Students also complete a variety of projects to apply their skills and knowledge. Units are divided among career fields: Social Workers, Emergency Management and Planners, Therapists and Treatment Specialists, Education and Childcare.

FASHION AND INTERIOR DESIGN ●

Do you have a flair for fashion? Are you constantly redecorating your room? If so, the design industry might just be for you! In this semester-long course, you'll explore what it is like to work in the industry by exploring career possibilities and the background that you need to pursue them. Get ready to try your hand at designing as you learn the basics of color and design then test your skills through hands-on projects. In addition, you'll develop the essential communication skills that build success in any business. By the end of the course, you'll be well on your way to developing the portfolio you need to get your stylishly clad foot in the door of this exciting field.

Required materials:

- Sewing machine
- Digital camera
- Thread
- Fabric
- Clothing Patterns
- Measuring tape
- Sketchpad
- Paper
- Scissors

FIRE AND EMERGENCY SERVICES ●

Emergency and fire-management services are essential infrastructure components of a community. Fire and Emergency Services is a semester-long course that provides students with the basic structure of these organizations as well as the rules and guidelines that govern pre-employment education requirements. The vehicles, equipment, and emergency-mitigations strategies that are commonly used in the emergency- and fire-management field are also explored. Students gain an understanding of the goals of an emergency-management service and how they are implemented and managed, including personnel, budget, and labor-management challenges in the organization. Various

preparedness plans are discussed as students explore typical characteristics and frameworks of modern emergency and fire-management organizations.

FOOD PRODUCTS AND PROCESSING SYSTEMS

Agriculture, food, and natural resources are central to human survival and civilization. The development, use, and stewardship of natural resources to create food products have a long and ever-changing timeline. This semester length high school course that explores the history and evolution of food products, along with the processing methods that have arisen to feed an ever-growing world population. Students study specifics in a wide spectrum of food product topics, from early methods of preservation to technological advancements in packaging, regulations in labeling, and marketing trends. Students learn industry terminology in each area of the overall system, from “farm to fork” to vertical integration to smart packaging.

FOOD SAFETY AND SANITATION

This comprehensive semester-long course covers the principles and practices of food safety and sanitation that are essential in the hospitality industry for the protection and well-being of staff, guests and customers. The course provides a systems approach to sanitation risk management and the prevention of food contamination by emphasizing the key components of the Hazard Analysis Critical Control Point (HACCP) food safety system. After successful completion of this course, students are prepared to meet the requirements of state and national certification exams.

FORENSICS: USING SCIENCE TO SOLVE A MYSTERY

Forensics: Using Science to Solve a Mystery is a semester-long high school course that overviews modern-day forensic science careers at work using science concepts to collect and analyze evidence and link evidence to the crime and suspects in order to present admissible evidence in courts of law. Projects in this course include simulated crime-scene investigation, actual DNA separation, development of a cybersecurity plan, and the identification of specific forensic skills used during the course of a very large murder case. The focus of this course is to assist students in making career choices. The overview of careers includes job descriptions and availability, educational and training requirements, licensing and certification, and typical annual salaries. Students who take this class will become equipped to make more informed career choices regarding the forensic, computer science and medical science fields. At the same time, students will survey the history and scope of present-day forensic science work.

FORENSIC SCIENCE I: SECRETS OF THE DEAD

Fingerprints. Blood spatter. DNA analysis. The world of law enforcement is increasingly making use of the techniques and knowledge from the sciences to better understand the crimes that are committed and to catch those individuals responsible for the crimes. Forensic science applies scientific knowledge to the criminal justice system. This semester-long course focuses on some of

the techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various elements of the crime scene are analyzed and processed.

FORENSIC SCIENCE II: MORE SECRETS OF THE DEAD

Although the crime scene represents the first step in solving crimes through forensic science, the crime laboratory plays a critical role in the analysis of evidence. This semester-long course focuses on the analysis of evidence and testing that takes place within this setting. We will examine some of the basic scientific principles and knowledge that guides forensic laboratory processes, such as those testing DNA, toxicology, and material analysis. Techniques such as microscopy, chromatography, odontology, entomology, mineralogy, and spectroscopy will be examined.

FUNDAMENTALS OF COMPUTER SYSTEMS

Fundamentals of Computer Systems is a semester-long high school course that provides students with an understanding of computers and how they operate as well as a basic understanding of how to manage and maintain computers and computer systems. These skills provide students with the ability to configure computers and solve computer problems. Students learn details about the different elements of computers and computer systems, how to identify hardware devices and their functions, the role of operating systems as well as how to install and customize Windows operating system. Students also learn about networking and the Internet, security issues, and current software applications, such as Microsoft Office. In addition, students learn specifics about maintaining and troubleshooting computers, including managing files, backing up systems, and using the administrative tools in Windows operating system. Lastly, students learn the basics of customer service and working as a help desk support technician.

FUNDAMENTALS OF DIGITAL MEDIA

Fundamentals of Digital Media is a semester-long course that presents high school students an overview of the different types of digital media and how they are used in the world today. This course examines the impact that digital media has on culture and lifestyle. The course reviews the basic concepts for creating effective digital media and introduces several different career paths related to digital media. Students learn about the tools used as well as best practices employed for creating digital media. In the course, students explore topics such as the use of social media, digital media in advertising, digital media on the World Wide Web, digital media in business, gaming and simulations, e-commerce, and digital music and movies. Students also review the ethics and laws that impact digital media use or creation.

FUNDAMENTALS OF PROGRAMMING AND SOFTWARE DEVELOPMENT

This semester-long course provides students with an understanding of basic software development concepts and practices, issues affecting the software industry,

careers within the software industry, and the skills necessary to perform well in these occupations. Students learn details about core concepts in programming using Java, writing and debugging code, proper syntax, flow of control, order of operations, comparison operators, and program logic tools and models. Students learn the function of key program techniques including if statements, looping, and arrays, as well as web development using HTML and drag-and-drop development of user interfaces in an integrated development environment. Students explore the software development life cycle and different variations used to create software. *Requires Java Software Development Kit (SDK) and the NetBeans Integrated Development Environment (IDE) is installed on students' computers. Instructions are included in the Unit 1 lesson titled "Introduction to Java Programming." *Course not available for Chromebook users.

GAME DESIGN I ●

The possibilities are endless when it comes to video game design! In this semester-long course learn about the history of gaming, software and hardware, trouble shooting, and Internet safety. Tap into your creative abilities and learn the necessary technical skills to design your own gaming platforms and create a plan for a 2D game. Turn your hobby into a future career.

Required materials:

- Internet access
- Slide show program
- Word processing program
- Unity LTS Release 2017.4.0f1
- OS: Windows 7 SP1+, 8, 10, 64-bit versions only; Mac OS X 10.9+. Server versions of Windows & OS X are not tested.
- GPU: Graphics card with DX10 (shader model 4.0) capabilities.
- Timing device (smartphone, stopwatch, or kitchen timer)
- Photo and video equipment (May be a digital camera, a phone with a camera or a computer camera)
- Several (10-20) pieces of blank paper, pencil and pen

Optional Materials:

For students who prefer to complete activities/lab by hand:

- Poster board or butcher paper
- Markers, crayons, colored pencils
- A printer

GAME DESIGN II ●

Explore all things related to video game design. Gain skills to conceptualize, design, and fully create a video game in this semester long course. Explore software and hardware, sharpen your coding skills, learn about storylines, player progression, and algorithmic decision making. Analyze a variety of game play components.

Required materials:

- OS: Windows 7 SP1+, 8, 10; Mac OS X 10.8+.
- Windows XP & Vista are not supported; and server versions of Windows & OS X are not tested.
- Firefox or Chrome browser for Audio App used in Unit 1
- GPU: Graphics card with DX9 (shader model 3.0) or

DX11 with feature level 9.3 capabilities.

- More advanced gaming prototypes may require more advanced hardware! You must have the ability to download software onto your computing device.
- Audio Recording device (microphone, etc.)
- Mouse/trackball with scroll wheel

GOTHIC LITERATURE: MONSTER STORIES ●

From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This semester-long course will focus on the major themes found in Gothic literature and demonstrate how the core writing drivers produce, for the reader, a thrilling psychological environment. Terror versus horror, the influence of the supernatural, and descriptions of the difference between good and evil are just a few of the themes presented. By the time students have completed this course, they will have gained an understanding of and an appreciation for the complex nature of dark fiction.

GREAT MINDS IN SCIENCE: IDEAS FOR A NEW GENERATION ●

Is there life on other planets? What extremes can the human body endure? Can we solve the problem of global warming? Today, scientists, explorers, and writers are working to answer all of these questions. Like Edison, Einstein, Curie, and Newton, the scientists of today are asking questions and working on problems that may revolutionize our lives and world. This semester-long course focuses on 10 of today's greatest scientific minds. Each unit takes an in-depth look at one of these individuals and shows how their ideas may help to shape tomorrow's world.

HEALTH CAREERS ●

In Health careers, students explore a variety of career options related to the health care field, including medicine, nursing, physical therapy, pharmacy, dental careers, sports medicine, personal training, social work, psychology, and more. Students will learn about various options within each field, what each of these jobs entails, and the education and knowledge required to be successful. In addition, they will focus on basic job skills and information that would aid them in health care and other career paths.

HEALTH, SAFETY, AND ETHICS IN THE HEALTH ENVIRONMENT ●

Health, Safety, and Ethics in the Health Environment is a semester-long high school course that focuses on healthcare safety, health maintenance practices, environmental safety processes and procedures, and ethical and legal responsibilities. It also reinforces, expands, and enhances biology content specific to diseases and disorders. Students participate in project- and problem-based healthcare practices and procedures to demonstrate the criticality of these knowledge and skills. Students develop basic technical skills required for all health career specialties including understanding occupational safety techniques and obtaining their CPR and First Aid certifications.

HEALTH SCIENCE CONCEPTS

This year-long course introduces high school students

to the fundamental concepts of anatomy and physiology—including the organization of the body, cellular functions, and the chemistry of life. As they progress through each unit, students learn about the major body systems, common diseases and disorders, and the career specialties associated with each system. Students investigate basic medical terminology as well as human reproduction and development. Students are introduced to these fundamental health science concepts through direct instruction, interactive tasks, and practice assignments. This course is intended to provide students with a strong base of core knowledge and skills that can be used in a variety of health science career pathways.

HISTORY OF THE HOLOCAUST ●

Holocaust education requires a comprehensive study of not only times, dates, and places, but also the motivation and ideology that allowed these events. In this semester long course, students will study the history of anti-Semitism; the rise of the Nazi party; and the Holocaust, from its beginnings through liberation and the aftermath of the tragedy. The study of the Holocaust is a multidisciplinary one, integrating world history, geography, American history, and civics. Through this in-depth, semester-long study of the Holocaust, high school students will gain an understanding of the ramifications of prejudice and indifference, the potential for government-supported terror, and they will get glimpses of kindness and humanity in the worst of times.

HOSPITALITY AND TOURISM: TRAVELING THE GLOBE ●

With greater disposable income and more opportunities for business travel, people are traversing the globe in growing numbers. As a result, hospitality and tourism is one of the fastest growing industries in the world. This semester-long course will introduce students to the hospitality and tourism industry, including hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other areas. Students will learn about key hospitality issues, the development and management of tourist locations, event planning, marketing, and environmental issues related to leisure and travel. The course also examines some current and future trends in the field. *Requires: Computer with:

- Internet access
- Slideshow program like Keynote or PowerPoint
- Word processing program like Microsoft Word
- Video recording device
- Digital camera, cell phone, or computer with video capabilities
- Audio recording device
- Computer, cell phone app, or handheld voice recorder
- A friend or family member to assist with various activities/labs
- A real or fake telephone to use as a prop

HOSPITALITY AND TOURISM 2: HOTEL AND RESTAURANT MANAGEMENT

In this year-long course, students will learn about what makes the hotel and restaurant industries unique. They

will learn about large and small restaurants, boutique and resort hotels, and their day-to-day operations. Students will evaluate the environment for these businesses by examining their customers and their competition. As well, they will discover trends and technological advances that makes each industry exciting and innovative. Students will explore a variety of interesting job options from Front Desk and Concierge services to Front-of-House and Food Service.

Required materials:

- Internet access
- Slideshow program like Keynote or PowerPoint
- Word processing program like Microsoft Word
- Video recording device
- Digital camera, cell phone, or computer with video capabilities
- Audio recording device
- Computer, cell phone app, or handheld voice recorder
- A friend or family member to assist with various activities/labs
- A real or fake telephone to use as a prop

Optional Materials: (only needed if student will not create labs/activities digitally)

- Craft materials:
- Crayons, markers, colored pencils
- Glue
- Scissors
- Poster board or butcher paper
- Printer

INTERNATIONAL BUSINESS: GLOBAL COMMERCE IN THE 21ST CENTURY ●

From geography to culture Global Business is an exciting topic in the business community today. This semester-long course is designed to help students develop the appreciation, knowledge, skills, and abilities needed to live and work in a global marketplace. It takes a global view on business, investigating why and how companies go international and are more interconnected. The course further provides students a conceptual tool by which to understand how economic, social, cultural, political and legal factors influence both domestic and cross-border business. Business structures, global entrepreneurship, business management, marketing, and the challenges of managing international organizations will all be explored in this course. Students will cultivate a mindfulness of how history, geography, language, cultural studies, research skills, and continuing education are important in both business activities and the 21st century.

INTRODUCTION TO AGRICULTURE, FOOD, AND NATURAL RESOURCES ●

This semester length high school course introduces students to the basic scientific principles of agriculture and natural resources. Students recognize and research plant systems, animal systems, government policy, “green” technologies, agribusiness principles, and sustainability systems. In this course, students apply understanding of ecosystems and systems thinking to the management of natural resources to maximize the health and productivity of the environment, agriculture, and communities. Students also analyze community practice or policy development related to sustainability in

agriculture, food, and natural resources. Finally, students apply adaptive ecosystem management to a common pool resource problem in a manner that addresses ecological, socioeconomic, and institutional contexts.

INTRODUCTION TO ART

Covering art appreciation and the beginning of art history, this full year course encourages students to gain an understanding and appreciation of art in their everyday lives. Presented in an engaging format, Intro to Art provides an overview of many introductory themes: the definition of art, the cultural purpose of art, visual elements of art, terminology and principles of design, and two- and three-dimensional media and techniques. Tracing the history of art, high school students enrolled in the course also explore the following time periods and places: prehistoric art, art in ancient civilizations, and world art before 1400.

INTRODUCTION TO BUSINESS

In this year-long introductory course, students learn the principles of business using real-world examples—learning what it takes to plan and launch a product or service in today’s fast-paced business environment. This course covers an introduction to economics, costs and profit, and different business types. Students are introduced to techniques for managing money, personally and as a business, and taxes and credit; the basics of financing a business; how a business relates to society both locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity. *Requires Open Office 3.2. *Course not available for Chromebook users.

INTRODUCTION TO CAREERS IN ARCHITECTURE AND CONSTRUCTION

The goal of this semester-long high school course is to provide students with an overview of careers in architecture and construction in order to assist with informed career decisions. This dynamic, rapidly evolving career cluster is comprised of three pathways (fields): Design and Pre-Construction (Architecture and Engineering); Construction (Construction and Extraction); and Maintenance and Operations (Installation, Maintenance, and Repair). The Architecture and Construction career cluster is defined as careers in building, designing, managing, maintaining, and planning the built environment. The built environment encompasses all zones of human activity—from natural conservation areas with minimal human intervention to highly dense areas with tall skyscrapers and intricate highway systems to suburban cul-de-sacs. The interrelated components that make up the built environment are as varied and unique as the professionals who help shape it.

INTRODUCTION TO CAREERS IN ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS

This introductory semester-long high school course provides comprehensive information on five separate areas of arts and communications as potential educational and career pathways, including: audio/video technology and film, performing arts, visual arts,

printing technology, journalism and broadcasting, and telecommunication systems. Students who are interested in careers across a broad spectrum of professional positions, including fine artist, telecommunications administrator, magazine editor, broadcast journalist, or computer graphic artist, will gain useful perspective on industry terminology, technology, work environment, job outlook, and guiding principles.

INTRODUCTION TO CAREERS IN EDUCATION AND TRAINING

Introduction to Careers in Education and Training is a semester-long course that introduces students to the field of education and training, and the opportunities available for early-childhood through adult and continuing education. Students gain an understanding of the career options available in teaching, administrative work, and support services. They also explore the education and background experience needed to succeed in these careers. Students learn about the evolution of the modern educational system in the United States, and the policies and laws that govern educational institutions. They also discover the similarities and differences between the ethical and legal obligations of working with adults versus working with children.

INTRODUCTION TO CAREERS IN FINANCE

Introduction to Careers in Finance is a semester-long course that provides the fundamentals of the financial services industry in the United States and explores the jobs and career opportunities that the industry offers. Course units address a broad set of services in the industry including finance overview, financial services, securities analysis, investments, principles of corporate finance, banking services, risk management, and insurance.

INTRODUCTION TO CAREERS IN GOVERNMENT AND PUBLIC ADMINISTRATION

This semester-long course provides students with an overview of American politics and public administration, including how political institutions and public management systems at the local, state, and federal levels exercise supervisory authority and maintain accountability. Students explore the foundations of the U.S. government, the separation of powers, the federal civil service system, and the relationship between the government and state and local officials. Students learn about politics in the United States and the electoral process, political attitudes and opinions, and American political parties. Students explore the structure of U.S. federal governmental institutions, the nature of bureaucracy, and the functions of the three branches of government. Students also learn about policy making in American government, including discussions of foreign and defense policies.

INTRODUCTION TO COMPUTER SCIENCE

Introduction to Computer Science is a year-long course designed for students in grades 9-10, although any students across 9-12 may enroll. This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. Students have creative, hands-on learning opportunities to create a

computer program, develop a web page, design a mobile app, write algorithms, and collaborate with peers while building a strong foundational knowledge base. This course provides a solid foundation for more advanced study as well as practical skills they can use immediately. *Requires Python is installed on students' computers. This can be downloaded or use the web-based Python Anywhere site. *Course not available for Chromebook users.

INTRODUCTION TO CAREERS IN THE HEALTH SCIENCES ●

This semester-long course is an overview of health careers and overriding principles central to all health professions. The course provides a foundation for further study in the field of health science. Upon completion of the course, students are able to discuss the potential career choices and have an understanding of basic concepts that apply to these different choices such as science and technology in human health, disease, privacy, ethics and safety. Essential skill development, such as communication and teamwork, are also addressed.

INTRODUCTION TO CAREERS IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS ●

This semester-long course introduces students to the complicated world of commercial transportation. Students undertake an overview of the fields of transportation, distribution, and logistics, learning the differences between the fields and the primary services provided in each. Students learn how warehousing, inventory, and other associated businesses impact the economy, which includes the advantages and disadvantages of automation on employment. Students learn about the history of transportation including. Students examine the fields that serve to support and manage transportation systems. Lastly, the role of technology and technological development on transportation-related businesses is addressed.

INTRODUCTION TO CODING ●

Intro to Coding is a semester-long course that covers a basic introduction to the principles of programming, including algorithms and logic. Students engage in hands-on programming tasks in the Python programming language as they write and test their own code using the approaches real programmers use in the field. Students will program with variables, functions and arguments, and lists and loops, providing a solid foundation for more advanced study as well as practical skills they can use immediately. *Requires Python 3.2.3, Java Runtime Environment 6.0 Update 33, and LibreOffice 3.6. *Course not available for Chromebook users.

INTRODUCTION TO CONSUMER SERVICES ●

In this semester-long course, students analyze various career paths in terms of employment opportunities and educational requirements, such as hard and soft skills, certifications, and licensures for different pathways. Developing research, analytical, and presentations skills are key components. This course is designed as an overview to prepare students for a consumer services-related career and to introduce them to specialty areas. Emphasis is placed on the human services aspect (vs.

corporate concerns) of consumer services. Social issues and advocacy, as well as ethics and legalities, are a recurring theme. Students gain knowledge of current issues affecting various consumer services professions, and the impact of local, state, national and global issues on consumer services.

INTRODUCTION TO FORESTRY AND NATURAL RESOURCES ●

Forests and other natural resources play an important role in our world, from providing lumber and paper products to providing habitat for birds and animals. In the Introduction to Forestry and Natural Resources semester-long course, you'll learn more about forest ecology, management, and conservation. You'll explore topics such as environmental policy, land use, water resources, and wildlife management. Finally, you'll learn more about forestry related careers and important issues facing forestry professionals today.

Required materials:

- A digital camera or camera phone
- Approximately 1 cup of soil
- A clear glass jar with a lid
- Water to fill the jar
- A ruler or tape measure
- Marker or tape
- Supplies for an experiment of the student's choice
- Samples of water from three different water sources
- 3 clear glass containers with lid

INTRODUCTION TO HEALTH SCIENCE

This year-long high school course introduces students to a variety of healthcare careers, as they develop the basic skills required in all health and medical sciences. In addition to learning the key elements of the U.S. healthcare system, students learn terminology, anatomy and physiology, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of medical emergency care. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the health care field.

INTRODUCTION TO HUMAN GROWTH AND DEVELOPMENT ●

This semester-long course focuses on human growth and development over the lifespan, as well as careers that help people deal with various physical, intellectual, and socio-emotional issues, such as physicians, nurses, nutritionists, substance abuse counselors, clergy, teachers, career counselors, psychologists, and psychiatrists. The course provides a background in human growth and development from before birth, through childhood, into adulthood, and through death and grief. It gives the student perspective and highlights where people in the caring professions are most needed. Students who take this course will come away with a broad understanding of all the careers that help people from birth to death.

INTRODUCTION TO HUMAN SERVICES ●

This semester-long course introduces high school students to the possibilities for careers in the human services professions. Through anecdotes, lessons, and a variety of assignments and projects, students learn about the broad variety of jobs available in the human services. These

begin with entry-level positions, such as associate social workers, that require a two-year Associate of Arts degree. Students also learn ethics and philosophies of the helping professions. The history of the profession, as well as the impact of the cultural, social, and economic environment on individual people, especially those who need social services assistance, is also explored.

INTRODUCTION TO INFORMATION TECHNOLOGY

This year-long course introduces students to the essential technical and professional skills required in the field of Information Technology (IT). Through hands-on projects and written assignments, students gain an understanding of the operation of computers, computer networks, Internet fundamentals, programming, and computer support. Students also learn about the social impact of technological change and the ethical issues related to technology. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the field of IT. *Requires Python 3.2.3, Java Runtime Environment 6.0 Update 33, and LibreOffice 3.6. *Course not available for Chromebook Users.

INTRODUCTION TO INFORMATION TECHNOLOGY SUPPORT AND SERVICES

This semester-long course focuses on real-world application, including common industry best practices and specific vendors that offer tools for technicians, project managers, and IT leadership. Students learn how the IT department of an enterprise supports the overall mission of the company. Students apply their knowledge of hardware and software components associated with IT systems while exploring a variety of careers related to IT support and services. Students analyze technical support needs to perform customer service and configuration management activities. Students also evaluate application software packages and emerging software. Students demonstrate and apply knowledge of IT analysis and design by initiating a system project and evaluating applications within the IT system.

INTRODUCTION TO LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY

In this semester-long course, students learn about the many careers that exist within the fields of law, law enforcement, public safety, corrections, and security. In addition to learning about the training and educational requirements for these careers, students explore the history of these fields and how they developed to their current state. Students also learn how these careers are affected by and affect local, state, and federal laws. Finally, students examine the relationships between professionals in these fields and how collaborations between professionals in these careers help to create a safer, more stable society.

INTRODUCTION TO MANUFACTURING: PRODUCT DESIGN AND INNOVATION

Think about the last time you visited your favorite store. Have you ever wondered how the products you buy make it to the store shelves? Whether it's video games, clothing, or sports equipment, the goods we purchase

must go through a manufacturing process before they can be marketed and sold. In this semester-long course, you'll learn about the types of manufacturing systems and processes used to create the products we buy every day. You'll also be introduced to the various career opportunities in the manufacturing industry including those for engineers, technicians, and supervisors. As a culminating project, you'll plan your own manufacturing process for a new product or invention! If you thought manufacturing was little more than mundane assembly lines, this course will show you just how exciting and fruitful the industry can be.

INTRODUCTION TO MILITARY CAREERS

You've probably seen an old movie about a hotshot naval aviator, or perhaps a more recent film about the daring actions of Special Forces operatives. But do you really know what careers the military can offer you? Introduction to Military Careers' semester-long course will provide the answers. The military is far more diverse and offers many more career opportunities and tracks than most people imagine. In Introduction to Military Careers, you'll learn not only about the four branches of the military (and the Coast Guard) but also about the types of jobs you might pursue in each branch. From aviation to medicine, law enforcement to dentistry, the military can be an outstanding place to pursue your dreams.

INTRODUCTION TO NETWORK SYSTEMS

This semester-long course introduces students to the fundamental technology and concepts that make networking systems possible. The most important concept introduced is that of the OSI reference model and its bottom four layers, which are most directly concerned with networking instead of computing. The course explores the software and hardware supporting LANs, WANs, and Wi-Fi networks. Students are introduced to the protocols in the TCP/IP stack that are used to communicate across a network, and to networking hardware, including hubs, switches, bridges, routers, and transmission media. Students explore questions of security, network management, and network operating systems.

INTRODUCTION TO STEM

This semester-long course introduces students to the four areas of Science, Technology, Engineering, and Mathematics through an interdisciplinary approach that will increase awareness, build knowledge, develop problem solving skills, and potentially awaken an interest in pursuing a career in STEM. Students are introduced to the history, fundamental principles, applications, processes, and concepts of STEM. Students are exposed to several computer applications used to analyze and present technical or scientific information. Finally, students explore the kinds of strategies frequently used to solve problems in these disciplines. Throughout the course, students discover their strengths through practical applications and awareness of the various STEM careers.

INTRODUCTION TO RENEWABLE TECHNOLOGIES

Interested in transforming energy? With concerns about

climate change and growing populations' effects on traditional energy supplies, scientists, governments, and societies are increasingly turning to renewable and innovative energy sources. In the Introduction to Renewable Technologies semester-long course, you'll learn all about the cutting-edge field of renewable energy and the exciting new technologies that are making it possible. You'll explore new ways of generating energy and storing that energy, from biofuels to high-capacity batteries and smart electrical grids. You'll also learn more about the environmental and social effects of renewable technologies and examine how people's energy decisions impact policies.

INTRODUCTION TO SOCIAL MEDIA ●

Have a Facebook account? What about Twitter? Whether you've already dipped your toes in the waters of social media or are still standing on the shore wondering what to make of it all, learning how to interact on various social media platforms is crucial in order to survive and thrive in this age of digital communication. In this semester-long course, you'll learn the ins and outs of social media platforms such as Facebook, Twitter, Pinterest, Google+, and more. You'll also discover other types of social media you may not have been aware of and how to use them for your benefit—personally, academically, and eventually professionally as well. If you thought social media platforms were just a place to keep track of friends and share personal photos, this course will show you how to use these resources in much more powerful ways.

KEYBOARDING AND APPLICATIONS ●

Keyboarding and Applications is a semester-long course that teaches students keyboarding skills, technical skills, effective communication skills, and productive work habits. Students learn proper keyboarding techniques. Once students have been introduced to keyboarding skills, lessons include daily practice of those skills. Students gain an understanding of computer hardware, operating systems, file management, and the Internet. In addition, students apply their keyboarding skills and create a variety of business documents, including word processing documents and electronic presentations.

*Requires Word-processing software (e.g., MS Word) and Presentation software (e.g., MS PowerPoint). *Course not available for Chromebook users.

LAW ENFORCEMENT FIELD SERVICES ●

This semester-long course introduces students to the field of law enforcement and the local, county, state, and federal laws that law enforcement personnel are sworn to uphold. The students also gain an understanding of the career options available in this field and the skills, education, and background experience needed to succeed. Students learn about the evolution of the role of law enforcement in the United States including key changes affecting law enforcement. Students learn about the interaction between local, county, state, and federal law enforcement agencies. Finally, students learn about the types of crime that are commonly committed and the procedures, evidence collection techniques, and technological advances that law enforcement personnel use to investigate crimes.

LEGAL SERVICES ●

Legal Services is a high school semester-long course that provides students with an overview of the system of laws in the United States, the practice areas, and career options in the field. Students learn about how the legal system operates, the consequences to those who commit crimes, and how disputes are settled, as well as how criminal and civil cases reach court and are resolved. Students learn about the courtroom and the basics of a typical court case. Students explore constitutional rights and legal safeguards, types of evidence, as well as how technology has changed the practice of law. They also learn about legal education and various careers in the legal field.

JOURNALISM: INVESTIGATING THE TRUTH

If you're the first to know what's going on in your school or town, or the first to post on Facebook or Instagram about your favorite TV shows or favorite celebrities, then you're just the person that every online, in-print, and broadcast news outlet is looking for. And Journalism: Investigating the Truth is the perfect course for you! In this year-long course, you'll learn how to write a lead that grabs your readers, how to write engaging news stories and features, and how to interview sources. You'll also learn about the history of journalism, how to succeed in the world of social media news, and how to turn your writing, photography, and people skills into an exciting and rewarding career.

LAW AND ORDER: INTRODUCTION TO LEGAL STUDIES ●

Every society has laws that its citizens must follow. From traffic laws to regulations on how the government operates, laws help provide society with order and structure. Our lives are guided and regulated by our society's legal expectations. Consumer laws help protect us from faulty goods; criminal laws help to protect society from individuals who harm others; and family law handles the arrangements and issues that arise in areas like divorce and child custody. This semester-long course focuses on the creation and application of laws in various areas of society. By understanding the workings of our court system, as well as how laws are actually carried out, we become more informed and responsible citizens in our communities and of our nation.

MARINE SCIENCE: SECRETS OF THE DEEP BLUE

Have you wondered about the secrets of the deep and how the creatures below the ocean's surface live and thrive? Understand more about the aquatic cycles, structures, and processes that generate and sustain life in the sea in this year-long course.

MARKETING AND SALES FOR TOURISM AND HOSPITALITY ●

This semester-long course is designed as an introduction to the study of tourism and hospitality marketing and sales. Students are introduced to marketing theory and application of the basic principles of marketing as applied in hospitality and tourism. The relationship between marketing and other functions such as advertising, sales techniques, and public relations to maximize profits in a hospitality organization is addressed. Students have an opportunity to explore this multi-faceted world, identifying multiple career paths and opportunities.

MEDICAL TERMINOLOGY

This full-year course introduces students to the structure of medical terms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to health care settings, medical procedures, pharmacology, human anatomy and physiology, and pathology. The knowledge and skills gained in this course provide students entering the health care field with a deeper understanding of the application of the language of health and medicine. Students are introduced to these skills through direct instruction, interactive tasks, practice assignments, and unit-level assessments.

MICROSOFT OFFICE SPECIALIST

This year-long course introduces students to the features and functionality of Microsoft® Office® 2016 while preparing them for the beginning, intermediate, and advanced levels of the Microsoft User Specialist (MOS) certification program. Through video instruction, interactive skills demonstrations, practice assignments, and unit-level assessments, students become proficient in Microsoft Word®, Excel®, PowerPoint®, Outlook®, and Access®. By the end of the course, students are prepared to demonstrate their skills by obtaining one or more MOS certifications.

MIDDLE SCHOOL 2D STUDIO ART

Journey inside the art studio and learn to bring your 2D art visions to life. Whatever medium you prefer, painting or drawing, this semester long course will help you hone your 2D art skills. Learn the elements and principles needed to logistically create art; explore your artistic inspirations; view art from different ages and cultures; gain insight about the art of critiquing.

Required materials:

- White drawing paper
- Various sizes of colored paper
- Paintbrushes in varying sizes
- Empty cans or jars to wash paintbrushes
- Ruler and/or protractor
- Erasers
- Scissors
- Miscellaneous household objects to use for still life art
- Digital camera, camera phone, or other type of camera
- Paint: (two or more of the following: Tempera Paint, Acrylic Paint, Watercolor, Ink Wash, Oil Paint)
- Drawing Tools: (two or more of the following: Pastels, Charcoal, Markers, Colored Pencil, Crayons)

MIDDLE SCHOOL CODING

In this year-long course, students will learn all about the technology they use in their day-to-day life as well as explore how the internet functions. The course includes an introduction to the basics of computer science as students discover how to create and build websites using HTML and CSS. They will also become familiar with programming languages like JavaScript and Python. Students will leave the course with a portfolio of work that will showcase their skills.

*Requires a Laptop with internet access

MIDDLE SCHOOL DIGITAL ART AND DESIGN

Digital art and design involves everything from advertising to animation to photography and more. In this year-long course, you'll learn about the evolution of art; the basic principles of art and design; the role of art in politics and society; and how to create digital art and make it come alive.

Required materials:

UNIT 2:

- Digital camera or cell phone with a camera feature (requires uploading digital photographs taken by student)

UNIT 3

- Drawing paper and colored pencils or markers or drawing software (requires creating a logo)

UNIT 5

- Drawing paper and colored pencils or markers or drawing software or animations software (requires creating a character that could be animated)

UNIT 6

- A computer or phone with a recording feature/app (will need to record a "radio" commercial)

MIDDLE SCHOOL EXPLORING MUSIC

Learn about how we hear music, its history and culture, and how it affects our lives. In this semester long course explore the elements of music, such as rhythm, pitch, and harmony, while discovering more about musical genres, singing and your voice, instruments, and musical composition. Tune up your understanding and appreciation for all things musical. *Requires video and audio recording devices.

MIDDLE SCHOOL GAME DESIGN

In this year-long course students will learn how to build a game from the ground up in Middle School Game Design 1, an interactive and hands-on course that will teach you all the ins and outs of making your own game. You will learn the importance of game structure and discover what makes a game fun, challenging, and interesting to players just like you. You will also have the opportunity to explore the design and creative process involved in game creation, learn block-based programs, and experiment with character and story development. As a bonus, you will leave the course with a digital portfolio of everything you created in class.

*Requires Scratch 3.0

MIDDLE SCHOOL JOURNALISM: TELL YOUR STORY

Who? What? When? Where? Journalism provides us with the answers to these questions for the events that affect our lives. In this year-long course, students will learn how to gather information, organize ideas, format stories for different forms of news media, and edit their stories for publication. The course will also examine the historical development of journalism and the role of journalism in society. *Requires a digital camera or camera phone with video recording capability.

MIDDLE SCHOOL PHOTOGRAPHY: DRAWING WITH LIGHT

Students see photographs every day on television, on the Internet, and in magazines and newspapers. What makes a great photograph? How did the artist capture

a story? What makes a great picture? What are careers in photography? In this course, students learn and apply fundamental skills to use a camera and take photographs of animals, people, and landscapes. Students gain an understanding of how photography can be a means of documentation or high art in this yearlong course. Students examine photographic careers and explore self-reflection to progress their creative growth as they develop a photographic portfolio. This course helps students select subjects, take a photograph, and print and display memories!

*Required materials:

- “Point and shoot” or above. A Smartphone may be used for most required tasks, however, appropriate applications will need to be installed to allow the student to make the necessary adjustments to the camera mode, shutter speed, and aperture.
- Paper and Pen/Pencil for note taking
- Camera cord to transfer images to the computer
- Image Editing Software
- Lighting tools for side, front, and back lighting

MUSIC APPRECIATION: THE ENJOYMENT OF LISTENING ●

Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This semester-long course will provide students with an aesthetic and historical perspective of music, covering a variety of styles and developments from the Middle Ages through the Twentieth First Century. Students will acquire basic knowledge and listening skills, making future music experiences more informed and satisfying.

MYTHOLOGY AND FOLKLORE: LEGENDARY TALES ●

Mighty heroes. Angry gods and goddesses. Cunning animals. Since the first people gathered around fires, mythology and folklore has been used as a way to make sense of humankind and our world. Beginning with an overview of mythology and different kinds of folklore, in this semester-long course students will journey with ancient heroes as they slay dragons and outwit gods, follow fearless warrior women into battle, and watch as clever monsters outwit those stronger than themselves. They will explore the universality and social significance of myths and folklore, and see how these are still used to shape society today.

NATIONAL SECURITY ●

In this semester-long course, you will learn the critical elements of this very important career, such as evaluating satellite information, analyzing training procedures, assessing military engagement, and preparing intelligence reports. In addition, you will gain a better understanding of appropriate responses to security threats and how best to coordinate information with other agencies.

NETWORK SYSTEM DESIGN ●

Network System Design is a semester-long course that provides students with an understanding of computer networks and how they operate, as well as a basic understanding of how to manage and maintain computer

networks. These skills provide students with the ability to design, configure, and troubleshoot networks of all sizes. Students learn the basics of network design, including how to identify network requirements and determine proper network architecture. Students are introduced to network models. Students also learn about internet protocol and the basics of routing data on a network. Students learn about network security issues and network management. Lastly, students learn about network operating systems and their role in connecting computers and facilitating communications.

NEW APPLICATIONS: WEB DEVELOPMENT IN THE 21ST CENTURY ●

New Applications is a semester-long survey course that travels from the first software programs developed to facilitate communication on the Internet, to the new generation of mobile and native apps that access the Internet without a reliance on a web browser. New Applications is also a practical course in how to develop a presence on the World Wide Web using WordPress and other available web application tools. The goal of the course is to provide the learner insight into the rapidly evolving universe of programming and application development to support informed career decisions in an industry that is changing as quickly as it is growing.

NUTRITION AND WELLNESS ●

This semester-long course takes students through a comprehensive study of nutritional principles and guidelines. Students learn about worldwide views of nutrition, essential nutrient requirements, physiological processes, food labeling, weight management, healthy food choices, fitness, diet-related diseases and disorders, food handling, healthy cooking, nutrition for different populations, and more. Students gain important knowledge and skills to aid them in attaining and maintaining a healthy and nutritious lifestyle.

ONLINE LEARNING AND DIGITAL CITIZENSHIP ●

This one semester course provides students with a comprehensive introduction to online learning, including how to work independently, stay safe, and develop effective study habits in virtual learning environments. Featuring direct-instruction videos, interactive tasks, authentic projects, and rigorous assessments, the course prepares students for high school by providing in-depth instruction and practice in important study skills such as time management, effective notetaking, test preparation, and collaborating effectively online. By the end of the course, students will understand what it takes to be successful online learners and responsible digital citizens.

PEER COUNSELING ●

Helping people achieve their goals is one of the most rewarding of human experiences. Peer counselors help individuals reach their goals by offering them support, encouragement, and resource information. This semester-long course explains the role of a peer counselor, teaches the observation, listening, and emphatic communication skills that counselors need, and provides basic training in conflict resolution, and group leadership. Not only will this

course prepare you for working as a peer counselor, but the skills taught will enhance your ability to communicate effectively in your personal and work relationships.

PERSONAL CARE SERVICES ●

Personal Care Services introduces high school students to a variety of careers in the following areas: cosmetology (including hairstyling and haircutting, esthetics, manicuring, makeup, and teaching) and barbering (including cutting and styling of hair and facial hair and manicuring for men); massage therapy, teaching body-mind disciplines (yoga, Pilates, and the martial arts), and fitness (general exercise classes and acting as a personal trainer); and mortuary science (embalming and funeral directing). The semester-long course teaches students about what each career entails and the education and training they need to become credentialed in various career specialties. In addition, about half of the course is devoted to teaching knowledge associated with the various professions, so that students can get a feel for what they should learn and whether they would like to learn it.

PERSONAL FINANCE ●

This semester-long introductory finance course teaches what it takes to understand the world of finance and make informed decisions about managing finances. Students learn more about economics and become more confident in setting and researching financial goals as they develop the core skills needed to be successful. In this one-semester course, students learn how to open bank accounts, invest money, apply for loans, apply for insurance, explore careers, manage business finances, make decisions about major purchases, and more. Students will be inspired by stories from finance professionals and individuals who have reached their financial goals.

PHILOSOPHY: THE BIG PICTURE ●

This semester-long course will take you on an exciting adventure that covers more than 2,500 years of history! Along the way, you'll run into some very strange characters. For example, you'll read about a man who hung out on street corners, barefoot and dirty, pestering everyone he met with questions. You'll learn about another eccentric who climbed inside a stove to think about whether he existed. Despite their odd behavior, these and other philosophers of the Western world are among the most brilliant and influential thinkers of all time. As you learn about these great thinkers, you'll come to see how and where many of the most fundamental ideas of Western Civilization originated. You'll also get a chance to ask yourself some of the same questions these great thinkers pondered. By the time you've "closed the book" on this course, you will better understand yourself and the world around you...from atoms to outer space... and everything in between.

PLANNING MEETINGS AND SPECIAL EVENTS ●

Planning Meetings and Special Events is a semester-long high school course designed as an introduction to the study of planning meetings and special events.

Being a meetings and special events planner is both demanding and rewarding. According to The Bureau of Labor Statistics employment of meeting, convention, and event planners is projected to grow 7 percent from 2018 to 2028, faster than the average for all occupations. Job opportunities should be best for candidates with hospitality experience and a bachelor's degree in meeting and event management, hospitality, or tourism management. It's not all fun and parties because a meeting coordinator is responsible for every detail of an event. Planners must know how to communicate, be empathetic, and think of their clients. It's crucial to remember that in some instances the event will be a once-in-a-lifetime occasion, so it's important to get it right.

PLANT SYSTEMS ●

Plant Systems is a semester-long high school course that introduces students to the basics of plant biology, soil science, agriculture, and horticulture, along with the environmental management practices involved in each, including integrated pest management, biotechnology, growth techniques, and crop management. Students learn the basic parts of a plant, how plants are scientifically classified, and how they interact with water, air, nutrients, and light to undergo the processes of photosynthesis and respiration. Plant reproduction, including pollination, germination, and dispersal of seeds, is also presented. The course concludes by looking at careers in the plant sciences which includes agronomy, horticulture, or landscape design.

POWER, STRUCTURAL, AND TECHNICAL SYSTEMS ●

This semester-long high school course provides students with an understanding of the field of agriculture power and introduces them to concepts associated with producing the food and fiber required to meet today's and tomorrow's needs. Students are given the opportunity to explore agriculture machinery, as well as structures and technological concepts. They also learn about the historical changes in agriculture and how agriculture has changed to meet the needs of the future world population. Students are introduced to machinery, structures, biotechnology, and ethical and professional standards applicable to agriculture power.

PRINCIPLES OF AGRICULTURE, FOOD AND NATURAL RESOURCES ●

Food has to travel from the farm to the table, and in Agriculture and Natural Resources, you will learn about all of the steps in that journey, beginning with the history of agriculture through animal husbandry, plant science, and managing our use of natural resources. In this semester-long course, you will receive a broad understanding of the subject matter, preparing you for future hands-on learning, participation in Future Farmers of America, and supervised agricultural experiences.

Required Materials:

- A digital camera or camera phone
- Supplies for an experiment of the student's choice

PRINCIPLES OF PUBLIC SERVICE: TO SERVE AND PROTECT ●

Have you ever wondered who decides where to put roads? Or makes sure that someone answers the phone

when you call 911? Or determines that a new drug is safe for the public? These tasks and many more are part of public service, a field that focuses on building healthy societies. Public service includes many different types of careers, but they all have in common the goal of working for others. This semester-long course will explore some of the most common career paths in public service. Working for the public also comes with a very specific set of expectations since protecting society is such an important mission. So, if you want to work for the greater good, there is probably a public service career for you!

PSYCHOLOGY

This year-long course introduces high school students to the study of psychology and helps them master fundamental concepts in research, theory, and human behavior. Students analyze human growth, learning, personality, and behavior from the perspective of major theories within psychology, including the biological, psychosocial, and cognitive perspectives. From a psychological point of view, students investigate the nature of being human as they build a comprehensive understanding of traditional psychological concepts and contemporary perspectives in the field. Course components include an introduction to the history, perspectives, and research of psychology; an understanding of topics such as the biological aspects of psychology, learning, and cognitive development; the stages of human development; aspects of personality and intelligence; the classification and treatment of psychological disorders; and psychological aspects of social interactions.

PUBLIC SPEAKING

The art of public speaking is one which underpins the very foundations of Western society. This year-long course examines those foundations in both Aristotle and Cicero's views of rhetoric, and then traces those foundations into the modern world. Students will learn not just the theory, but also the practice of effective public speaking, including how to analyze the speeches of others, build a strong argument, and speak with confidence and flair. By the end of this course, students will know exactly what makes a truly successful speech and will be able to put that knowledge to practical use.

REAL WORLD PARENTING

What is the best way to care for children and teach them self-confidence and a sense of responsibility? Parenting involves more than having a child and providing food and shelter. Learn what to prepare for, what to expect, and what vital steps parents can take to create the best environment for their children in this semester-long course. Parenting roles and responsibilities, nurturing and protective environments for children, positive parenting strategies, and effective communication in parent/child relationships are some of the topics covered in this course.

RESTAURANT MANAGEMENT

Have you always dreamed of running your own restaurant? Maybe you want to manage a restaurant for a famous chef. What goes on beyond the dining room in a restaurant can determine whether a restaurant is a wild

success or a dismal failure. In Restaurant Management, you'll learn the responsibilities of running a restaurant—from ordering supplies to hiring and firing employees. This semester-long course covers the different types of restaurants; managing kitchen and wait staff; food safety and hygiene; customer relations; marketing; using a point-of-sale system; scheduling employees; and dealing with difficult guests. Restaurant Management will prepare you for a steady career, whether you plan to buy a fast food franchise, operate a casual sit-down restaurant, or oversee a fine-dining establishment.

Required materials:

- A digital camera or camera phone
- Ingredients and tools to make a simple food dish of student's choice
- Stove/grill/oven/microwave

SCIENCE AND MATHEMATICS IN THE REAL WORLD

Science and Mathematics in the Real World is a semester-long high school course where students focus on how to apply scientific and mathematical concepts to the development of plans, processes, and projects that address real world problems, including sustainability and "green" technologies. This course also highlights how science, mathematics, and the applications of STEM will be impacted due to the development of a greener economy. This course exposes students to a wide variety of STEM applications and to real world problems from the natural sciences, technology fields, the world of sports, and emphasizes the diversity of STEM career paths. The importance of math, critical thinking, and mastering scientific and technological skill sets is highlighted throughout. Challenging and enjoyable activities provide multiple opportunities to develop critical thinking skills and the application of the scientific method, and to work on real world problems using STEM approaches.

SCIENTIFIC DISCOVERY AND DEVELOPMENT

Scientific Discovery and Development is a semester-long high school course that explores the history of clinical laboratory science, learning how clinical laboratories evolved and became professionalized, and how scientific discoveries and breakthroughs fueled the development of the laboratory while the sub-disciplines in biology were advancing. Students learn about the circulatory system and about microbiology and the subfields within it. Cells and tissues, cell division and basic genetics is also addressed. This course covers the three major areas in bioresearch: biotechnology, nanotechnology, and pharmaceutical research and development. More than two dozen career fields are explored along the way including laboratory techs, phlebotomists, and pathologist assistants. Students learn what is necessary in the areas of education and credentialing with an idea of the job outlook and salaries.

SCIENTIFIC RESEARCH

Scientific Research is a semester-long high school course that describes activities from the point of view of a professional scientist. The lessons provide support, accessible ideas, and specific language that guide students through most of the steps, insights, and experiences eventually faced if continued through

higher education toward a graduate degree. Knowing the practical, everyday basics of scientific thinking and laboratory activity serves as a necessary first step to a career as a technician or a lab assistant. While these jobs are hands-on and technical, the intellectual and historical background covered in the course provides an awareness that is essential to working in such an atmosphere.

SECURITY AND PROTECTIVE SERVICES ●

Security and Protective Services is a semester-long high school course that offers an overview of the security and protective services industry. Students will understand different types of security services and how they relate to one another. The distinction between the criminal justice system within the public sector and private security is addressed. The course begins with an introduction to the history of private security, with subsequent units focusing on a specific sector. The concluding unit focuses on the emerging challenges facing security services in the twenty-first century, including international terrorism. In addition, the course provides information about many different careers that are available to students who are interested in security and protective services.

SMALL BUSINESS ENTREPRENEURSHIP

This full-year course is designed to provide the skills needed to effectively organize, develop, create, manage and own a business, while exposing students to the challenges, problems, and issues faced by entrepreneurs. Throughout this course, students explore what kinds of opportunities exist for small business entrepreneurs and become aware of the necessary skills for running a business. Students become familiar with the traits and characteristics that are found in successful entrepreneurs, and see how research, planning, operations, and regulations can affect small businesses. Students also learn how to develop plans for having effective business management, financing and marketing strategies.

SOCIAL PROBLEMS I: A WORLD IN CRISIS ●

Students will become aware of the challenges faced by social groups, as well as learn about the complex relationship among societies, governments and the individual. Each unit of this semester-long course is focused on a particular area of concern, often within a global context. Possible solutions at both the structural level as well as that of the individual will be examined. Students will not only learn more about how social problems affect them personally, but begin to develop the skills necessary to help make a difference in their own lives and communities, not to mention globally.

SOCIAL PROBLEMS II: CRISIS, CONFLICTS AND CHALLENGES ●

The Social Problems II semester-long course continues to examine timely social issues affecting individuals and societies around the globe. Students learn about the overall structure of the social problem as well as how it impacts their lives. Each unit focuses on a particular social problem, including racial discrimination, drug abuse, the loss of community, and urban sprawl, and discusses possible solutions at both individual and structural levels. For each issue, students examine the connections in the global arena involving societies, governments and the

individual.

SOCIOLOGY ●

Providing insight into the human dynamics of our diverse society, this is an engaging, one-semester course that delves into the fundamental concepts of sociology. This interactive course, designed for high school students, covers cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology, the sociology of public institutions, and collective human behavior, both historically and in modern times.

SOFTWARE DEVELOPMENT TOOLS ●

This semester-long course introduces students to the variety of careers related to programming and software development. Students gather and analyze customer software needs and requirements, learn core principles of programming, develop software specifications, and use appropriate reference tools to evaluate new and emerging software. Students apply IT-based strategies and develop a project plan to solve specific problems and define and analyze system and software requirements.

SPORTS AND ENTERTAINMENT MARKETING ●

Have you ever wished to play sports professionally? Have you dreamed of one day becoming an agent for a celebrity entertainer? If you answered yes to either question, then believe it or not, you've been fantasizing about entering the exciting world of sports and entertainment marketing. Although this particular form of marketing bears some resemblance to traditional marketing, there are many differences as well—including a lot more glitz and glamour! In this course, you'll have the opportunity to explore basic marketing principles and delve deeper into the multi-billion dollar sports and entertainment marketing industry. In this semester-long course learn about how professional athletes, sports teams, and well known entertainers are marketed as commodities and how some of them become billionaires as a result. If you've ever wondered about how things work behind the scenes of a major sporting event such as the Super Bowl or even entertained the idea of playing a role in such an event, then this course will introduce you to the fundamentals of such a career.

STEM AND PROBLEM SOLVING ●

Science, technology, engineering, and mathematics (STEM) are active components in the real world. STEM and Problem Solving is a semester-long high school course that outlines how to apply the concepts and principles of scientific inquiry, encouraging the use of problem-solving and critical-thinking skills to produce viable solutions to problems. Students learn the scientific method, how to use analytical tools and techniques, how to construct tests and evaluate data, and how to review and understand statistical information. This course is designed to help students understand what we mean by problem solving and to help understand and develop skills and techniques to create solutions to problems. Advanced

problem-solving skills are necessary in all science, technology, engineering, and mathematics disciplines and career paths. This problem-solving course stresses analytic skills to properly format problem statements, use of the scientific method to investigate problems, the use of quantitative and qualitative approaches to construct tests, and an introduction to reviewing and interpreting statistical information.

STRATEGIES FOR ACADEMIC SUCCESS ●

Offering a comprehensive analysis of different types of motivation, study habits, and learning styles, this one semester course encourages high school and middle school students to take control of their learning by exploring varying strategies for success. Providing engaging lessons that will help students identify what works best for them individually, this one-semester course covers important study skills, such as strategies for taking high-quality notes, memorization techniques, test-taking strategies, benefits of visual aids, and reading techniques.

SUSTAINABLE SERVICE MANAGEMENT FOR HOSPITALITY AND TOURISM ●

This comprehensive semester-long course covers the principles and practices of sustainable service management. The purpose of this course is to provide students with an understanding of socially, environmentally, and financially sustainable hospitality management. The course provides a sustainable approach to service management, incorporating the role of the customer, employee, leaders, and the environment. After successful completion of this course, students understand and are able to explain the fundamentals of sustainability in the hospitality industry.

TEACHING AND TRAINING CAREERS ●

Teaching and Training Careers is a semester-long high school course that introduces students to the art and science of teaching. It provides a thorough exploration of pedagogy, curriculum, standards and practices, and the psychological factors shown by research to affect learners. In five units of study, lessons, and projects, students engage with the material through in-depth exploration and hands-on learning, to prepare them for teaching and training careers. Students are given many opportunities to be the teacher or trainer, and to explore the tasks, requirements, teaching strategies, and research-based methods that are effective and high-quality.

TECHNOLOGY AND BUSINESS

This year-long course teaches students technical skills, effective communication skills, and productive work habits needed to make a successful transition into the workplace or postsecondary education. In this course, students gain an understanding of emerging technologies, operating systems, and computer networks. In addition, they create a variety of business documents, including complex word-processing documents, spreadsheets with charts and graphs, database files, and electronic presentations.

TRANSPORTATION AND TOURS FOR THE TRAVELER ●

Transportation and Tours for the Traveler is a semester-

long course where students learn about today's package tour industry, travel industry professionals, and package tour customers. Students find out who tour operators must work with to create travel products and what kinds of decisions they must make in terms of meals, lodging, attractions, and, of course, transportation. Finally, students learn about how technology, world events, and increased environmental awareness are affecting the travel industry today. Students focus on the different components that go into creating a tour to get a sense of what working for a tour operator entails as well as what other careers are available in the tour industry.

VETERINARY SCIENCE: THE CARE OF ANIMALS ●

As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this semester-long course will examine some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases impact not only the animals around us, but at times we humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues is studied and applied.

WORLD RELIGIONS: EXPLORING DIVERSITY ●

Throughout the ages, religions from around the world have shaped the political, social, and cultural aspects of societies. This semester-long course focuses on the major religions that have played a role in human history, including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, and Taoism. Students will trace the major developments in these religions and explore their relationships with social institutions and culture. The course will also discuss some of the similarities and differences among the major religions and examine the connections and influences they have.

HEALTH AND PHYSICAL EDUCATION

ADAPTIVE PE ●

This course allows for customized exercise requirements based on a student's situation. In addition, students learn the basic skills and information needed to begin a personalized exercise program and maintain an active and healthy lifestyle. Students research the benefits of physical activity and the techniques, principles, and guidelines of exercise to keep them safe and healthy.

ADVANCED PE 1 AND 2

This two semester course guides students through an in-depth examination of the effects of exercise on the body. Students learn how to exercise efficiently and properly. Basic anatomy, biomechanics, and physiology will serve as a foundation for students to build effective exercise programs. The study of nutrition and human behavior is also an integral part of the course. Students conduct fitness assessments and participate in weekly physical activity. *These courses are recommended for grades

10–12.

ANATOMY ●

In this course, students will explore the anatomy or structure of the human body. In addition to learning anatomical terminology, students will study the main systems of the body—including skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems. In addition to identifying the bones, muscles, and organs, students will study the structure of cells and tissues within the body. *This course is recommended for grades 10–12.

COMPREHENSIVE PE ●

In this course, students will explore concepts involving personal fitness, team sports, dual sports, and individual and lifetime sports. Students will focus on health-related fitness as they set goals and develop a program to improve their fitness level through cardio, strength, and flexibility training. In addition, they will learn about biomechanics and movement concepts as they enhance their level of skill-related fitness. Students will learn about game play concepts and specifically investigate the rules, guidelines, and skills pertaining to soccer, softball, volleyball, tennis, walking and running, dance, and yoga. Students take a pre- and post-fitness assessment. Throughout this course, students also participate in a weekly fitness program involving elements of cardio, strength, and flexibility, as well as participating in a variety of dual, individual, and group sport activities.

CONCEPTS IN FITNESS ●

This course examines basic concepts in fitness that are important for personal fitness, as well as necessary foundational information for any health or exercise career field. Areas of study include musculoskeletal anatomy and physiology, terms of movement, basic biomechanics, health-related components of fitness, FITT principles, functional fitness skills, safety and injury prevention, posture and technique, nutrition, and weight management.

CONTEMPORARY HEALTH ●

Available as either a semester or full year course, this high-school health offering examines and analyzes various health topics. It places alcohol use, drug use, physical fitness, healthy relationships, disease prevention, relationships and mental health in the context of the importance of creating a healthy lifestyle. Throughout the course, students examine practices and plans they can implement in order to carry out a healthy lifestyle, and the consequences they can face if they do not follow safe practices. In addition, students conduct in-depth studies in order to create mentally and emotionally healthy relationships with peers and family, as well as nutrition, sleeping, and physical fitness plans. Students also examine and analyze harassment and bullying laws. This course takes covers issues of sex and gender identity, same-sex relationships, contraception, and other sensitive topics. For a more conservative approach to health education, the Healthy Living course is also available in the Health and Physical Education Bundle.

CREDIT RECOVERY PE I AND 2

Credit Recovery PE is ideal for students who have had prior exposure to physical education yet were unable to receive credit for their previous work. These courses contain all the essential content with reduced coursework. Students learn about the FITT principles, the components of physical fitness, and the benefits of physical activity, as well as the techniques, principles, and guidelines of exercise to keep them safe and healthy. Students participate in weekly physical activity throughout the courses. *This course can be completed in 6–8 weeks.

DRUGS & ALCOHOL ●

This course delves into the types and effects of drugs, including alcohol, tobacco, steroids, over-the-counter drugs, marijuana, barbiturates, stimulants, narcotics, and hallucinogens. Students learn about the physiological and psychological effects of drugs, as well as the rules, laws, and regulations surrounding them. The difference between appropriate and inappropriate drug use will also be discussed. In addition, students will learn about coping strategies, healthy behaviors, and refusal skills to help them avoid and prevent substance abuse, as well as available resources where they can seek help.

EXERCISE SCIENCE ●

This course guides students through an in-depth examination of the effects of exercise on the body. Students learn how to exercise efficiently and properly and how to motivate themselves and others. Basic anatomy, biomechanics, and physiology will serve as a foundation for students to build effective exercise programs. The study of nutrition and human behavior is also an integral part of the course to enhance the student comprehension of this multifaceted subject. *This course is recommended for grades 10–12.

FAMILY AND CONSUMER SCIENCES ●

This course prepares students with a variety of skills for independent or family living. Topics covered include childcare, home maintenance, food preparation, money management, medical management, clothing care, and more. The course also focuses on household, personal, and consumer health and safety. In addition, students learn goal-setting and decision-making skills, as well as explore possible career options.

FAMILY LIVING AND HEALTHY RELATIONSHIPS ●

In this course, students examine the family unit and characteristics of healthy and unhealthy relationships at different phases of life—including information on self-discovery, family, friendships, dating and abstinence, marriage, pregnancy, and parenthood. Students learn about the life cycle and the different stages of development, from infancy to adulthood. The course also focuses on a variety of skills to improve relationships and family living, including coping skills, communication skills, refusal skills, babysitting, parenting, and healthy living and disease prevention habits.

FIRST AID AND SAFETY ●

In this course, students learn and practice first aid

procedures for a variety of common conditions, including muscular, skeletal, and soft tissue injuries. In addition, students learn how to appropriately respond to a variety of emergency situations. They also learn the procedures for choking and CPR for infants, children, and adults. In addition to emergency response, students will explore personal, household, and outdoor safety and disaster preparedness.

FITNESS FUNDAMENTALS 1

This course is designed to provide students with the basic skills and information needed to begin a personalized exercise program and maintain an active and healthy lifestyle. Students participate in pre- and post-fitness assessments in which they measure and analyze their own levels of fitness based on the five components of physical fitness: muscular strength, endurance, cardiovascular fitness, flexibility, and body composition. In this course, students research the benefits of physical activity, as well as the techniques, principles, and guidelines of exercise to keep them safe and healthy. Throughout this course students participate in a weekly fitness program involving elements of cardio, strength, and flexibility.

FITNESS FUNDAMENTALS 2

This course takes a more in-depth look at the five components of physical fitness touched on in Fitness Fundamentals I: muscular strength, endurance, cardiovascular health, flexibility, and body composition. This course allows students to discover new interests as they experiment with a variety of exercises in a non-competitive atmosphere. By targeting different areas of fitness, students increase their understanding of health habits and practices and improve their overall fitness level. Students take a pre- and post-fitness assessment. Throughout this course students also participate in a weekly fitness program involving elements of cardio, strength, and flexibility.

FLEXIBILITY TRAINING

This course focuses on the often-neglected fitness component of flexibility. Students establish their fitness level, set goals, and design their own flexibility training program. They study muscular anatomy and learn specific exercises to stretch each muscle or muscle group. Students focus on proper posture and technique while training. They also gain an understanding of how to apply the FITT principles to flexibility training. This course explores aspects of static, isometric, and dynamic stretching and also touches on aspects of yoga and Pilates. In addition, this course discusses good nutrition and effective cross-training. Students conduct fitness assessments and participate in weekly physical activity.

FOUNDATIONS OF PERSONAL WELLNESS

Exploring a combination of health and fitness concepts, this comprehensive and cohesive course explores all aspects of wellness. Offered as a two semester course designed for high school students, coursework uses pedagogical planning to ensure that students explore fitness and physical health and encourages students to learn about the nature of social interactions and how

to plan a healthy lifestyle. NOTE: This course contains content from both Healthy Living and Lifetime Fitness; to avoid duplication, students should take either those one-semester courses or this full-year course.

GROUP SPORTS

This high school course provides students with an overview of group sports. Students learn about a variety of sports and do an in-depth study of soccer, basketball, baseball/softball, and volleyball. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to each sport. Students also learn about sportsmanship and teamwork. In addition, students study elements of personal fitness, goal setting, sport safety, and sports nutrition. Students conduct fitness assessments and participate in weekly physical activity.

HEALTH QUEST

This middle school semester long Health course introduces students to the concepts of what good health is, why good health is important, and what students should do in order to achieve good health. By the end of this course, students will be able to demonstrate an awareness of health as it applies to their bodies, minds, and environment; identify the components of a healthy lifestyle; set reasonable wellness goals; and apply health concepts across multiple contexts.

HEALTH AND PERSONAL WELLNESS

This comprehensive health course provides students with essential knowledge and decision-making skills for a healthy lifestyle. Students analyze aspects of emotional, social, and physical health and how these realms of health influence each other. Students apply principles of health and wellness to their own lives. In addition, they study behavior change and set health goals to work on throughout the semester. Additional topics of study include healthy relationships, reproductive health, disease transmission, substance abuse, safety and injury prevention, environmental health, and consumer health.

HEALTHY LIVING

Encouraging students to make responsible, respectful, informed, and capable decisions about topics that affect the well-being of themselves and others, this high school course provides students with comprehensive information they can use to develop healthy attitudes and behavior patterns. Available as either a semester or year-long course, this informative and engaging course encourages students to recognize that they have the power to choose healthy behaviors to reduce risks.

HOMEBOUND PE AND HEALTH

Homebound options are ideal for students who are momentarily unable to attend their regular school yet wish to maintain their coursework. Students may enroll for a homebound course on a week by week basis for up to sixteen weeks. Throughout the PE course, students participate in regular weekly physical activity, as well as learn about principles of fitness. The health courses focus on a different health/nutrition concept each week.

HOPE 1 AND 2

This two-semester combined health and PE course is

based on the Florida course requirements for a health/PE course. Throughout the course, students learn about the various realms of health and how they affect each other. In addition to focusing on mental, social, and physical health, students also learn about consumer and environmental health, personal safety, drugs and alcohol, and reproductive health. Students also engage in a fitness program assessing and analyzing their fitness level, setting goals, establishing a fitness schedule, and engaging in weekly physical activity.

INDIVIDUAL SPORTS ●

This high school course provides students with an overview of individual sports. Students learn about a variety of sports, yet do an in-depth study of running, walking, hiking, yoga, dance, swimming, biking, and cross-training. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to each sport. Students also learn about the components of fitness, the FITT principles, benefits of fitness, safety and technique, and good nutrition. Students conduct fitness assessments and participate in weekly physical activity.

INTRO TO COACHING ●

This course focuses on the various responsibilities of a coach and the skills needed to successfully fill this important position. Throughout the course, students will explore various coaching models and leadership styles, sports nutrition, and sports psychology, as well as safety in conditioning and cross-training. Students will learn effective communication, problem-solving, and decision-making skills. The course will also introduce students to game strategy, tactical strategy, skills-based training, and coaching ethics.

LIFETIME FITNESS ●

Exploring fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, and stress management, this year-long course equips high school students with the skills they need to achieve lifetime fitness. Available as either a semester or year-long course, Lifetime Fitness encourages students to assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Personal fitness assessments encourage students to design a fitness program to meet their individual fitness goals.

LIFETIME AND LEISURE SPORTS ●

This course provides students with an overview of dual and individual sports. Students learn about a variety of sports, and do an in-depth study of martial arts, Pilates, fencing, gymnastics, and water sports. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to many of these sports. Students also learn the components of fitness, benefits of fitness, safety and technique, and good nutrition. Students conduct fitness assessments, set goals, and participate in weekly physical activity.

MIDDLE SCHOOL FITNESS BASICS 1 AND 2 ●

This course is designed to provide students with the basic skills and information needed to begin a personalized exercise program and maintain an active and healthy lifestyle. Students participate in pre- and post-fitness assessments in which they measure and analyze their own levels of fitness based on the five components of physical fitness: muscular strength, endurance, cardiovascular fitness, flexibility, and body composition. In this course, students research the benefits of physical activity, as well as the techniques, principles, and guidelines of exercise to keep them safe and healthy. Throughout this course students participate in a weekly fitness program involving elements of cardio, strength, and flexibility.

MIDDLE SCHOOL INTRO TO GROUP SPORTS 1 AND 2 ●

This course provides students with an overview of group sports. Students learn about a variety of sports, and an in-depth study of soccer or basketball in Intro to Group Sports 1 and baseball/softball and volleyball in Intro to Group Sports 2. Students learn the history, rules, and guidelines of each sport, as well as game strategy and the benefits of sports. In addition, students study elements of personal fitness, goal setting, sport safety, and sports nutrition. Students conduct a pre- and post-fitness assessment, as well as participate in regular weekly physical activity as they practice skills related to group sports.

MIDDLE SCHOOL HEALTH ●

This comprehensive health course is designed for middle school students. It covers basic information about body systems, disease, and hygiene. Students explore the various realms of health, including mental, social, and emotional health. In addition, students learn important life skills such as decision-making and refusal skills.

MIDDLE SCHOOL INTRODUCTION TO INDIVIDUAL SPORTS ●

This course provides students with an overview of individual sports. Students learn about a variety of sports, yet do an in-depth study of running, walking, strength training, yoga, Pilates, dance, water sports, and cross-training. Students learn the history, rules, and guidelines of each sport, and practice specific skills related to each sport. Students also learn about the components of fitness, FITT principles, benefits of fitness, safety and technique, and good nutrition. Students conduct fitness assessments and participate in weekly physical activity.

LIFE SKILLS ●

This course allows students to explore their personality type and interests, as well as refine important skills that will benefit them throughout their lives, including personal nutrition and fitness skills, time and stress management, communication and healthy relationships, goal setting, study skills, leadership and service, environmental and consumer health, and personal finances. In addition, students explore possible colleges and careers that match their needs, interests, and talents.

OUTDOOR SPORTS ●

This course provides students with an overview of dual and individual sports. Students learn about a variety of sports, and do an in-depth study of hiking and orienteering, golf, and dual volleyball. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to many of these sports. Students also learn the FITT principles, benefits of fitness, and safety and technique. Students conduct fitness assessments, set goals, and participate in weekly physical activity.

PHYSIOLOGY ●

In this course, students will examine the functions of the body's biological systems—including skeletal, muscular, circulatory, respiratory, digestive, endocrine, nervous, and reproductive systems. In addition to understanding the function of each system, students will learn the function of cells, blood, and sensory organs, as well as study DNA, immunity, and metabolic systems. *This course is recommended for grades 10–12. Anatomy is a recommended prerequisite.

PERSONAL HEALTH AND FITNESS ●

This combined health and PE course provides students with essential knowledge and decision-making skills for a healthy lifestyle. Students will analyze aspects of emotional, social, and physical health and how these realms of health influence each other. Students will apply principles of health and wellness to their own lives. In addition, they will study behavior change and set goals to work on throughout the course. Other topics of study include substance abuse, safety and injury prevention, environmental health, and consumer health.

This combined health and PE course provides students with essential knowledge and decision-making skills for a healthy lifestyle. Students will analyze aspects of emotional, social, and physical health and how these realms of health influence each other. Students will apply principles of health and wellness to their own lives. In addition, they will study behavior change and set goals to work on throughout the course. Other topics of study include substance abuse, safety and injury prevention, environmental health, and consumer health.

This course is also designed to provide students with the basic skills and information needed to begin a personalized exercise program and maintain an active and healthy lifestyle. Students participate in pre- and post-fitness assessments in which they measure and analyze their own levels of fitness based on the five components of physical fitness: muscular strength, endurance, cardiovascular fitness, flexibility, and body composition. In this course, students research the benefits of physical activity, as well as the techniques, principles, and guidelines of exercise to keep them safe and healthy. Throughout this course students participate in a weekly fitness program involving elements of cardio, strength, and flexibility.

PERSONAL TRAINING CAREER PREPARATION ●

This course examines the role and responsibilities of a personal trainer. Students will learn the steps to become a personal trainer, including performing fitness assessments, designing safe and effective workouts, and

proper nutrition principles. Concepts of communication and motivation will be discussed, as well as exercise modifications and adaptations for special populations. Students will also examine certification requirements, business and marketing procedures, and concerns about liability and ethics. In addition, throughout the course students will be able to explore various exercises, equipment, and tools that can be used for successful personal training. *This course is recommended for grades 10–12. Concepts in Fitness is a recommended prerequisite to this course.

PERSONAL TRAINING CONCEPTS ●

This course examines basic concepts in fitness that are important for personal fitness, as well as necessary foundational information for any health or exercise career field. Areas of study include musculoskeletal anatomy and physiology, terms of movement, basic biomechanics, health related components of fitness, FITT principles, functional fitness skills, safety and injury prevention, posture and technique, nutrition, and weight management.

RUNNING ●

This course is appropriate for beginning, intermediate, and advanced runners and offers a variety of training schedules for each. In addition to reviewing the fundamental principles of fitness, students learn about goals and motivation, levels of training, running mechanics, safety and injury prevention, appropriate attire, running in the elements, good nutrition and hydration, and effective cross-training. While this course focuses mainly on running for fun and fitness, it also briefly explores the realm of competitive racing. Students conduct fitness assessments and participate in weekly physical activity.

SPORTS OFFICIATING ●

In this course, students will learn the rules, game play, and guidelines for a variety of sports, including soccer, baseball, softball, basketball, volleyball, and football. In addition, they will learn the officiating calls and hand signals for each sport, as well as the role a sport official plays in maintaining fair play.

STRENGTH TRAINING ●

This course focuses on the fitness components of muscular strength and endurance. Students establish their fitness level, set goals, and design their own resistance training program. They study muscular anatomy and learn specific exercises to strengthen each muscle or muscle group. Students focus on proper posture and technique while training. They also gain an understanding of how to apply the FITT principles and other fundamental exercise principles, such as progression and overload and strength training. This course also discusses good nutrition and effective cross-training. Students take a pre- and post-fitness assessment. Students conduct fitness assessments and participate in weekly physical activity. *This course is recommended for grades 10–12.

WALKING FITNESS ●

This course helps students establish a regular walking

program for health and fitness. Walking is appropriate for students of all fitness levels and is a great way to maintain a moderately active lifestyle. In addition to reviewing fundamental principles of fitness, students learn about goals and motivation, levels of training, walking mechanics, safety and injury prevention, appropriate attire, walking in the elements, good nutrition and hydration, and effective cross-training. Students take a pre- and post-fitness assessment. Throughout this course students also participate in a weekly fitness program involving walking as well as elements of resistance training and flexibility.

Test Preparation

VIRTUAL TUTOR: ACT®

This course provides students with the opportunity to prepare to successfully complete the ACT® college-entrance exam. Practice tests diagnose and target areas of opportunity, and students are prescribed individual study paths. The learning experience includes video-based instruction by highly qualified teachers, interactive assignments, and frequent assessment opportunities to track progress.

VIRTUAL TUTOR: SAT®

This test preparation course effectively prepares students for all sections of the SAT® exam. Course content is broken into strands, allowing students to focus on each subject extensively before moving on to the next area of study. Within each strand, a diagnostic pretest identifies students' strengths and weaknesses and tailors a personalized study plan for each test-taker.

VIRTUAL TUTOR: PSAT®

This course provides students with the opportunity to prepare for success on the PSAT®. Practice tests diagnose and target areas of opportunity, and students are prescribed individual study paths. The learning experience includes video-based instruction by highly qualified teachers, interactive assignments, and frequent assessment opportunities to track progress.

Advanced Placement

All AP® courses are school year only and require summer work. Students are expected to complete their summer assignment before the course begins and submit their work by the end of Week 1. Students who register on or after September 1st will receive an extension to complete the summer assignment by the end of Week 3. The summer assignment is intended to review crucial content associated with prerequisite knowledge for the course, where applicable, as well as to allow students to better understand the rigor associated with the content. Summer work information will be emailed to the student upon enrollment in the course. Students enrolled in Advanced Placement® VHS Learning courses are expected to take the AP® exam, and to report their AP® exam scores to VHS Learning. By enrolling in an AP® VHS Learning class, the student

authorizes their school administration to report AP® exam scores to VHS Learning. Exam results will not affect the student's VHS Learning grade or future enrollment in VHS Learning courses. MVP does offer some Advanced Placement courses in an asynchronous format. Please reach out to MVP for more details.

AP® ART HISTORY

Advanced Placement® Art History builds the visual literacy and critical thinking skills needed to effectively analyze art across time and place. The framework of the AP® Art History course encourages students to develop deep understanding of representative art works from diverse cultures, including the fundamental knowledge that places these works in context and articulates the relationships among them.

The curriculum conveys the big ideas and essential questions at the center of an investigation into the world art and art production. Clear learning objectives that represent the art historical skills valued by art historians and higher education faculty will inform class assignments.

Students will acquire a comprehensive knowledge of historically significant artists, movements, aesthetic theories and practices, ranging from the prehistoric times to the significant contributions in the 21st Century. Art production of all cultures will be studied in relative proportion to their representation on the Art History Advanced Placement® Exam.

Students will see the development of trends, movements, and events in art, how they reflected and affected the times in which they occurred, gaining insight into typically misunderstood topics pertaining to the visual arts. Students will research and write knowledgeably on a number of art history topics, reflecting and synthesizing their own theories on the many works they will see in virtual museums and collections. They will be expected, through carefully structured assignments, to exhibit an extensive scholarship in conjunction with these experiences.

AP® BIOLOGY

The Advanced Placement® course in Biology is equivalent to a full-year Freshman Biology course taught at any major University. Students will be reading the same text that is used at many major colleges and universities and working at a rigorous pace to cover the material and prepare for the Advanced Placement® Examination in May. Upon successful completion of the exam, students may receive college credit and will be well-prepared for any future Biology course.

This class will build upon prior knowledge of Biology. The course covers topics such as molecular genetics, biochemistry, human anatomy and physiology, cell biology, plant biology and ecology. Using the text, the Internet, class discussions, and projects, the course will cover a tremendous amount of material in order to give students a complete understanding of the study of biology. Biweekly examinations will test students' knowledge of the material as well as prepare them for the AP® examination. Due to the volume and level of the

material, this course is designed to challenge extremely motivated students who have a strong interest in the Biological Sciences.

Prerequisites:

- One full year of high school Biology and one full year of high school Chemistry.

AP® CALCULUS AB

The Advanced Placement® Calculus AB course is the equivalent of a first semester college calculus course devoted to topics in differential and integral calculus. The rigor and pace of this course is consistent with calculus offerings at many colleges and universities and will prepare students for the Advanced Placement® Exam. Upon successful completion of the exam, students may receive college credit and will be well-prepared for additional advanced mathematics coursework.

AP® Calculus AB builds upon prior knowledge in previous mathematics course work. Students will explore topics within the three big ideas covered in the course: (1) Change, (2) Limits, and (3) Analysis of Functions. This course allows students to gain conceptual understanding through discussions, group activities and investigations. Students will learn how to use the graphing calculator to help solve problems, experiment, interpret results, and support conclusions. In order to prepare for the exam, students will complete weekly AP® practice quizzes and unit exams that will conform to the constraints of the AP® exam.

Prerequisites:

- Students should complete four years of secondary mathematics designed for college-bound students. These courses should explore topics in algebra, geometry, trigonometry, analytic geometry, and elementary functions.
- Students should be familiar with the properties of these elementary functions, which include linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, and piecewise defined functions.

AP® CALCULUS BC

The Advanced Placement® Calculus BC course is a first-semester college calculus course and the subsequent single-variable calculus course. The rigor and pace of this course is consistent with calculus offerings at many colleges and universities and will prepare students for the Advanced Placement® Exam. Upon successful completion of the exam, students may receive college credit and will be well-prepared for additional advanced mathematics coursework.

AP® Calculus BC builds upon prior knowledge in previous mathematics course work. Students will explore topics within the three big ideas covered in the course: (1) Change, (2) Limits, and (3) Analysis of Functions. This course allows students to gain conceptual understanding through discussions, group activities and investigations. Students will learn how to use the graphing calculator to help solve problems, experiment, interpret results, and support conclusions. In order to prepare for the exam, students will complete weekly AP® practice quizzes and unit exams that will conform to the constraints of the AP®

exam.

Prerequisites:

- Students should complete four years of secondary mathematics designed for college-bound students. These courses should explore topics in algebra, geometry, trigonometry, analytic geometry, and elementary functions.
- Students should be familiar with the properties of these elementary functions, which include linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, and piecewise-defined functions.

AP® CHEMISTRY

This Advanced Placement® Chemistry Course is equivalent to a full-year Introductory Chemistry college level course. The rigor and pace of this course is consistent with that of many major colleges and universities, and it will prepare students for the Advanced Placement® Examination in May. Upon successful completion of the exam, students may receive college credit and will be well-prepared for additional advanced chemistry coursework.

AP® Chemistry builds upon prior knowledge of Chemistry. Students will investigate topics such as chemical reactions, stoichiometry, atomic theory, periodicity, bonding, states of matter, thermodynamics, kinetics and equilibrium. This course incorporates a variety of textbook and multimedia resources and will require students to perform hands on and virtual experiments to develop a deeper understanding of chemistry. Students will engage in collaborative activities such as class discussions, contribute to class data and attend regular “lab meetings” throughout the course. AP® practice quizzes and unit exams will help prepare students for the AP examination. Due to the rigor and pace of the content, this course is designed to challenge extremely motivated students who have a strong interest in Chemistry.

Prerequisites:

- One full year of Honors high school Chemistry which must include a comprehensive, hands-on, teacher-supervised laboratory component to ensure that students have mastered appropriate chemistry laboratory techniques including: quantitative liquid measurement and transfer, safe liquid heating, and familiarity with common chemistry glassware.
- One full year of high school Algebra 2.

AP® COMPUTER SCIENCE A

Advanced Placement® (AP®) Computer Science A is designed to prepare students for the College Board’s AP® Computer Science A Exam. The course curriculum covers the topics and activities of a first year computer science course at the undergraduate level. It is designed to be engaging and motivating for the high school student.

AP® Computer Science is a course designed to awaken and support students’ problem-solving skills. The course will introduce the Java programming language while emphasizing universal language techniques like syntax, semantics and readability. While Java is the official AP® CS A language, the concepts taught are applicable to any industry standard language such as Python, C++, C#, and JavaScript. Students will gain mastery in programming

concepts by using a subset of Java features that are covered when needed throughout the course content. This allows the student to understand and master important concepts that will apply to programming problems in many additional languages. Students in AP[®] Computer Science will gain initial exposure to Object Oriented Programming through Alice, a highly-visual and engaging environment where students can creatively explore and apply basic programming elements including control statements, functions, control structures, variables, events and lists. Students will encounter situations that involve solving problems with the use of primitive data types, methods, and control statements. Later in the first term, this inquiry will evolve into the use of Object-Oriented Programming (OOP) which is today's most common and practical way to develop software.

VHS Learning students will learn complex algorithms using gamification in Alice and will use industry standard tools for software development such as the Eclipse Integrated Development Environment, JUnit Java testing framework, and the Check Style static code analysis tool. These tools make learning easier by providing students multiple opportunities to complete tasks with instant feedback on functionality of their code. Programming assignments are carefully scaffolded to move students progressively toward better understanding and greater independence as programmers.

Prerequisites:

- Completion of Algebra 1; students will be required to complete tasks in basic arithmetic, square roots, absolute value, and exponents. Familiarity in functional notation (i.e. $f(x) = x + 2$) and basic manipulations with variables (i.e. solving $-3 + 3x = 11 + x$)
- There are no specific programming language prerequisites for AP[®] Computer Science; a prior course that supports computational thinking is helpful.

AP[®] COMPUTER SCIENCE PRINCIPLES

According to the College Board, the AP[®] Computer Science Principles course (AP[®] CSP) is designed to be equivalent to a first semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world. The course is designed to engage students from diverse backgrounds and those who are new to computing. In addition, the course prepares students to successfully complete the AP[®] CSP Create Performance Task as part of

the AP[®] CSP exam.

The course engages all students in authentic, project-based learning to develop computational thinking through:

- Collaborative problem solving
- Creative design of unique solutions
- Data representation through modeling and simulations
- Algorithmic reasoning

In addition, the course prepares students to successfully complete both the AP[®] CSP Performance Tasks and the AP[®] CSP exam.

Prerequisites:

- In addition to the enrollment fee, this course has an AP[®] fee of \$75.
- It is recommended that a student in the AP[®] Computer Science Principles course should have successfully completed a first-year high school algebra course with a strong foundation in basic algebraic concepts

AP[®] ECONOMICS

Economics is a social science which addresses how society allocates (distributes) limited resources (e.g. - goods and services). It is a "science" because it is governed by quantifiable laws designed to predict likely outcomes. It is a "social" science, as opposed to a natural science, because its laws are based upon social, as opposed to natural occurrences.

This course will prepare the student for both the AP Micro and Macroeconomics exams. Each exam consists of 60 multiple choice questions and three free-response essay questions. Many colleges and universities give credit for passing the AP[®] exam, enabling the student to move on to more advanced level courses.

Prerequisites:

- Students will be expected to read a minimum of one chapter per week in an AP[®] textbook. These are college-level textbooks.
- Basic mathematics and graphing skills required.
- Being self-motivated and able to work in small groups is a plus.

AP[®] ENGLISH LANGUAGE AND COMPOSITION

The AP[®] English Language and Composition course is devoted to the study of argument and persuasion or what has traditionally been called rhetoric. The course is intended to help students become effective readers and writers. The goal is to understand how messages are conveyed and arguments are structured. Because most media is at some level rhetorical - that is, it has a point of view the reader, viewer, or listener is expected to accept - it is important to recognize how our view of the world is being shaped by what we read, view, or hear. It is also important that as writers we understand how best to communicate our own point of view in a way that others will find reasonable even if they do not agree. The purpose of this course is to allow students to explore how to express reasonable points of view and to communicate views effectively.

The AP[®] Language and Composition test assesses a student's ability to recognize how arguments are

made, the audiences to whom they are made, and the author's purpose in making those arguments. The test also expects that students will be able to recognize the rhetorical tricks of the trade an author employs to convey the argument and make it more agreeable to the reader. It is expected that the student will be able to identify the stylistic devices that characterize a writer's work, at least in a given passage. Stylistic analysis is probably the aspect of the Language and Composition course that is most like traditional literary analysis; this is where students focus on elements in a text such as imagery, metaphor, and allusion. It is important to remember that style is often a writer's fingerprint. Instead of looking at the literary devices employed by a text to understand how they help to tell a story, we will be looking at them to understand how they define a writer's unique style and how a writer uses style to shape an argument. The test also asks students to construct their own argument defending a point of view in regard to an issue.

Prerequisites:

- Required Texts: This course requires students to obtain copies of certain texts. Details provided in the Additional Requirements field of this course description.

AP® ENGLISH LITERATURE AND COMPOSITION

When you read, what do you wonder about? In this course, we will use the themes of identity, power, and “the other” to frame our inquiry into what authors can make us feel, think, and understand, how they create those emotions in us, and why. We will wonder together about texts from a wide variety of time periods and genres including short fiction, poetry, novels, and drama.

The course will begin by studying short fiction, poetry, and then longer works of fiction that relate to the theme of identity. In addition to reading many short stories and poems, as well as materials from the eBook *Literature and Composition: Reading, Writing, Thinking*, students will explore Miller's play *Death of a Salesman*, either Adichie's *Americana*, or Makai's *The Great Believers*, and Chopin's *The Awakening*. During the first third of the course, students will focus on understanding and developing the tools of literary analysis, such as character, setting, plot and conflict, speaker and point of view, and use of language.

In the middle section of the course, students will consider how power impacts individuals and societies, again through the study of short fiction, poetry, and longer works. Our study of poetry will delve into sonnets and other poetic form, and students will read Kesey's *One Flew Over the Cuckoo's Nest*, and study Shakespeare's *Macbeth*. In exploring the idea of power, we will think about who has power, how they get it, how they wield it, and how society assigns power. During this section of the course, we will focus more deeply on the author's craft and how authors create a meaning, message, and/or mood.

In the last part of the course, we will investigate the concept of “the other” through the various genres and forms of fiction. Students will read *Never Let Me Go*, by Ishiguro and then compare excerpts from the epic poem

Beowulf with a modern re-imagining of that story in Gardner's *Grendel*. We will consider how societies and power may impact and create “the other” and why groups might seek to make another group “other.” Throughout the course students will write, discuss, and work collaboratively, focusing on developing thesis statements and supporting them with textual evidence. In addition to informal responses and formal literary essays, students will practice AP-style Free-Response Questions and multiple-choice questions throughout the class.

This is a rigorous and fast-moving course, which will require students to develop and use strong organization and time management skills, in addition to strong critical thinking and writing skills. The Advanced Placement® English Literature and Composition course is the equivalent of a first semester college English course devoted a study of English literature from a range of time periods and genres. The rigor and pace of this course is consistent with entry-level English offerings at many colleges and universities and will prepare students for the Advanced Placement® Exam. Upon successful completion of the exam, students may receive college credit and will be well-prepared for additional advanced English coursework.

Prerequisites:

- Mature Themes: Some texts contain mature content such as adult language, violence, sex, and/or suicide.
- Required Texts: This course requires students to obtain copies of certain texts.

AP® ENVIRONMENTAL SCIENCE

This full year AP® Environmental Science class is equivalent to an introductory, one semester, college level, environmental science class. If you have successfully completed both high school level biology and chemistry, if you are interested in the environment, and if you are looking for a challenge, this course might be for you! Because this is a college level course, be ready to commit time to your study. This course will cover concepts in ecology, geology, sociology, economics, biology, and chemistry, that will further your understanding of how humans can live sustainably. Integrated in the course is a field study component which will improve your observational skills, allow you to develop and conduct well-designed experiments, and provide opportunity to interpret and share your observations, results and conclusions with your classmates. You will be applying concepts learned in the weekly lessons to your local field study, as well as collaborating with your classmates regularly on case studies and local environmental concerns to gain a global perspective on environmental issues. During the second semester you will engage in an independent research project which culminates in a project showcase where you will present your research to your classmates.

Prerequisites:

- One full academic year of both high school-level biology and chemistry. Students will need access to both a scanner and a digital camera to complete assignments for this course. The scanner is needed only occasionally, but the digital camera will be used

every couple of weeks.

AP® EUROPEAN HISTORY

AP® European History is a rigorous academic course that is structured around the investigation of five course themes from 1450 to the present. It prepares students for the demands of a college education by emphasizing the development of nine specific historical thinking skills while providing extensive experience in college level reading, writing and responsibility for learning. The challenging and stimulating curriculum of AP® European History requires much more time than other high school courses. Solid reading and writing skills, along with a willingness to devote considerable hours to homework and study, are necessary to succeed. This course promotes effective time management and organization skills and is structured specifically to meet new criteria set forth by the College Board.

During this full-year course, students will investigate the broad themes of interaction between Europe and the World, Poverty and Prosperity, Objective Knowledge and Subjective Visions, States and Other Institutions of Power, and the Individual and Society, while making crucial connections across four different chronological periods ranging from 1450 to the present. In addition, the course is focused toward 19 key concepts, which enable students to better understand, organize, and prioritize historical developments within a chronological framework. As students learn to analytically examine historical facts and evidence, they will gain deeper conceptual understandings of critical developments in European history and will understand issues from multiple perspectives.

This course specifically encourages the development of students' skills in the categories of chronological reasoning, comparison and contextualization, construction of evidence-based arguments, and interpretation and synthesis of historical narratives, all competencies essential for college and career success. Throughout the course, AP® European History students can expect to:

- Watch or listen to traditional history lectures produced by the teacher or offered by colleges and universities online.
- Participate in class discussions of primary documents, course themes, and key events in threaded discussions.
- Use historical facts and evidence to debate key issues or role-play historic figures through student audio recordings.
- Demonstrate historical thinking skills through essays designed to meet the requirements outlined by the College Board for Advanced Placement® exams.
- Collaborate with other students in research groups using Web 2.0 information tools.
- Utilize supplement traditional textbook reading with historical journals and primary documents.

AP® FRENCH LANGUAGE AND CULTURE

The AP® French Language and Culture course is designed to promote proficiency in French and to enable students to explore culture in contemporary and historical contexts. The course focuses on interpersonal, interpretive

and presentational communication, encourages cultural awareness, and incorporates the six themes of global challenges, science and technology, contemporary life, personal and public identities, families and communities and beauty and aesthetics. By using these six course themes outlined in the AP curriculum, students will increase their cultural knowledge and experience with the Francophone world through a comparison with their own cultural experience.

Instructional content will include the arts, current events, literature, sports, and more. In addition to textbooks, materials will include websites, podcasts, films, newspapers, magazines, and literature. The course helps develop language skills that can be applied beyond the French course in further French study and everyday life. AP® French will enable advanced French students to improve writing skills and problem-solving techniques in preparation for the AP French Language Exam. Students will explore the French-speaking world through a variety of perspectives based on authentic and up- to- date materials and the use of French media like TV5 Monde, while gaining a better understanding of themselves. A variety of assignments and activities will be included. For example, students would read and discuss poetry, create their own poetry and showcase their poems in a class magazine. Another example is that students might participate in an online mock trial after researching France's role in the slave trade and which key figures were involved. They would assume the roles of those figures who lived during that specific time period. Also, students will read an important work of classic or contemporary literature, write an essay that focuses on a specific theme or aspect and then participate in a discussion that addresses comprehension, stylistic techniques and relevant historical or situational background. Current events in French society, politics, culture, education, etc. would also drive assignments and activities regarding discussions, debates, written work and research that encourage students to consider their own views, in oral and written formats as well as those of their peers.

Prerequisites:

- Students must have completed a minimum of French III with a grade of B or better. Successful completion of French IV is preferred.

AP® HUMAN GEOGRAPHY

The AP® Human Geography course, designed to meet the needs of highly motivated students, is organized around the major themes of human interactions within a shared world that considers the questions, where and why. Where do people live and why or how do cultures influence human behavior?

Students will study the elements of sociology, anthropology, religion, politics, economics, and psychology that help students understand how to make sense of others and themselves in a locality, region and the world. The course is offered at a college level class and will require rigorous work and effort. Students should expect to complete a variety of readings, writings, and practice exams as well as to participate in many discussions and activities. It is expected that students will take the Advanced Placement® Human Geography exam

in May, as preparation for this exam is one of the major goals of the course.

The course will introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students will employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They will also learn about the methods and tools geographers use in their science and practice. The seven topics include Geography: Its Nature and Perspectives, Population, Cultural Patterns and Processes, Political Organization of Space, Agriculture and Rural Land Use, Industrialization and Economic Development and Cities and Urban Land Use. A significant outcome of the course is students' awareness of the relevance of academic geography to everyday life and decision making. This combination of the academic and the applied gives students a sophisticated view of the world and an understanding of the manifold applications of what they have learned in the course.

AP® LATIN

The Advanced Placement® Latin course is a is the equivalent of a first semester college Latin course devoted to Vergil's Aeneid and Caesar's Gallic War. The rigor and pace of this course is consistent with Latin offerings at many colleges and universities and will prepare students for the Advanced Placement® Exam. Upon successful completion of the exam, students may receive college credit and will be well-prepared for additional advanced Latin coursework.

The AP® Latin curriculum is designed to provide advanced high school students with a Latin course that hones the skills needed to read, understand, translate, analyze, and appreciate the richness of Latin poetry and prose. Focusing on Vergil's Aeneid and Caesar's Gallic War, as well as presenting other classical authors and genres, this AP Latin course helps students to reach beyond translation to read and discuss with critical, historical, and literary sensitivity. Students will apply themes and literary strategies to relevant modern issues, develop three-point essay writing skills, work collaboratively on projects and translations, and use numerous electronic media resources effectively. Oral readings and audio recordings in Latin will be included.

Prerequisites:

- Successful completion of Latin 1, 2, and 3 courses.

AP® MUSIC THEORY

This course is designed to give the student an understanding of music theory, sight reading, and aural skills that is equivalent to that of a first-year college music student. It is also designed with the explicit purpose of preparing the student for the AP Exam in Music Theory. The course content and presentation will adhere to the guidelines set forth by the College Board in the Music Theory Course Description.

The course will cover: the fundamentals of traditional melodic and harmonic composition through the early twentieth century; multiple techniques for melodic, harmonic, and formal analysis; an introduction to two- and four-voice counterpoint; an introduction to jazz,

blues, and non-Western techniques; and the basics of orchestration.

In addition, students will be trained to sight-read melodies in major and minor keys, with limited chromatic alteration. They will also perform listening exercises for the purposes of memorizing and notating specific intervals, scales, chords, rhythms, melodies, and progressions. This course may not be appropriate for students with specific accessibility limitations as written. Please refer to the VHS Learning Handbook policy on Special Education/Equity for more information on possible modifications. If you need additional assistance, please let us know at service.VHSLearning.org.

Prerequisites:

- Proficiency in playing major and minor scales, reading basic tonal melodies, and using proper technique on one or more musical instruments (vocal, orchestral, band).

Strongly Recommended:

- At least one semester of practice writing traditional music notation with proper technique.
- At least one semester of keyboard instruction, including scales and triad formation.

AP® PHYSICS 1

This Advanced Placement® Physics 1 Course is equivalent to a first semester, algebra-based, Introductory Physics college-level course. The rigor and pace of this course is consistent with that of many major colleges and universities and will prepare you for the Advanced Placement® Examination in May. Upon successful completion of the exam, you may receive college credit and you will be well-prepared for additional advanced physics coursework.

Students will investigate topics such as Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, power, mechanical waves and sound. Students will also be introduced to electric circuits. This course incorporates a variety of textbook and multimedia resources and will require students to perform hands on and virtual experiments to develop a deeper understanding of physics.

Students will engage in collaborative activities such as class discussions, contribute to class data and attend regular "lab meetings" throughout the course. AP® practice quizzes and unit exams will help prepare students for the AP® examination. Due to the rigor and pace of the content, this course is designed to challenge extremely motivated students who have a strong interest in Physics.

Prerequisites:

- One full year of high school Algebra 2.

AP® PHYSICS C

This Advanced Placement® Physics Course is equivalent to a full-year introductory college-level course, for scientists and engineers, which introduces the main principles of Mechanics and Electricity & Magnetism. The rigor and pace of this course is consistent with that of many major colleges and universities, and will prepare students for the two-part Advanced Placement Examination in May on 1) Mechanics and 2) Electricity and Magnetism. AP® Physics C builds upon prior knowledge of Physics.

Students will investigate topics such as Newton's Laws of motion, energy, linear and angular momentum, gravitation, oscillatory motion, electric and magnetic fields, Gauss's Law, circuits and Faraday's Law. The course uses complex mathematical problem-solving techniques, including differential and integral calculus, as well as a variety of textbook and multimedia resources, and hands-on and virtual experiments, in order to develop a deeper understanding of physics.

Students will engage in collaborative activities such as class discussions, contribute to class data, attend regular "lab meetings", and document their experimental findings in a laboratory notebook. AP[®] practice quizzes and unit exams will help prepare students for the AP[®] examination. Due to the rigor and pace of the content, this course is designed to challenge extremely motivated students who have a strong interest in Physics.

Prerequisites:

- Grade of B+ or better in prior full-year, algebra-based Physics class. (Note: An introductory physical science course does not meet this prerequisite.)
- Recommendation by former Physics teacher.
- Completion or co-enrollment in AP[®] Calculus.

AP[®] PSYCHOLOGY

The AP[®] Psychology course is designed 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. They also learn about the ethics and methods psychologists use in their science and practice.

This course is taught at the college level. The major difference between a high school and college course is the amount of reading and depth of focus. The AP curriculum stresses higher order thinking skills within a rigorous academic context. Students will be required to frequently analyze, synthesize, and evaluate primary and secondary sources in addition to memorizing, comprehending, and applying psychological concepts. Students are engaged in content (through a variety of multimedia, using high-quality online resources in addition to those offered with their text) case study work and regular discussions on controversial topics and applications of psychological concepts throughout the course. Student will also research specific experiments on their own as well as reflect on their learning in regular journal entries.

Students should expect weekly reading assignments in the eBook, Myers' Psychology for AP[®] 2nd Edition.

In addition to research, writing, group work, and participation in discussions

Tips for completing multiple choice questions and writing the essay part of the exam are part of the instruction for this course. Students will be given numerous opportunities to review and practice for the AP[®] exam through-out the course

AP[®] SPANISH LANGUAGE AND CULTURE

AP[®] Spanish Language is intended for highly motivated students who wish to develop proficiency and integrate

their language skills, providing frequent opportunities for students to use authentic materials and sources. Not only will they be prepared for the AP[®] Spanish Language exam in May, but they will also gain an insight into the cultural aspects of Spain and other Spanish-speaking countries. Students will be exposed to many different forms of written and spoken Spanish through the study of poems, short stories, newspaper articles, along with radio and television broadcasts.

The course will:

- Encourage a thematic approach to teaching. Students participate in activities that integrate language, literature, and culture; make connections to other disciplines; and compare aspects of the target culture with other cultures.
- Articulate clear learning objectives. Clearly articulated learning objectives provide information on the knowledge and skills students should demonstrate to succeed on the exam.
- Reflect college-level expectations. The College Board collaborates with language educators from leading colleges, universities, and secondary schools to ensure that the course reflects rigorous college standards.

Prerequisites

- Spanish I-IV or the equivalent with at least a B average in your previous Spanish class. In this fifth year Spanish course, it is assumed that students have already learned the grammar and syntax of the language and have acquired strong skills in speaking, writing, reading, and understanding Spanish. The college-level curriculum for this course is designed to reinforce and sharpen these skills with the goal of achieving mastery in the skills of listening, speaking, reading, and writing as defined by the AP[®] Spanish Language course description. Students will be working at a rigorous pace to cover the material and prepare for the Advanced Placement[®] Examination in May. This course will meet the needs of highly motivated students who have a strong interest and ability in the Spanish language.

AP[®] STATISTICS

The Advanced Placement[®] Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The rigor and pace of this course is consistent with non-calculus-based statistics offerings at many colleges and universities and will prepare students for the Advanced Placement[®] Exam. Upon successful completion of the exam, students may receive college credit and will be well-prepared for additional advanced coursework.

AP[®] Statistics introduces students to major concepts that consist of collecting, analyzing and drawing conclusions from data. This course is organized into four major themes: (1) exploring data, (2) sampling and experimentation, (3) anticipating patterns, and (4) statistical inference. This course allows students to gain conceptual understanding through discussions, data collection activities, investigations and a final project in which they will conduct a statistical study. In order to prepare for the exam, students will complete weekly AP

practice quizzes and unit exams that will conform to the constraints of the AP exam.

Prerequisites

- Algebra 2

AP® U.S. HISTORY

This is a college level history course designed to meet the needs of highly motivated students who have a strong interest and ability in history. The student is expected to read and analyze both primary and secondary source materials and to demonstrate the ability to interpret and evaluate these sources. The course is content driven with heavy emphasis on written critical analysis. Extensive reading writing and class discussions are integral components of the program. The course is organized into nine historical periods that run from the pre-colonial era to the present. The key concepts, supporting concepts, and historical developments that are required knowledge for each period are included. Students will develop historical thinking skills by investigating the past in ways that reflect the discipline of history, most particularly through the exploration and interpretation of a rich array of primary sources and secondary texts, and through the regular development of historical argumentation in writing.

The AP® program in United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance, and to weigh the evidence and interpretations presented in historical scholarship. The course develops the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively.

AP® UNITED STATES GOVERNMENT AND POLITICS

AP® United States Government and Politics is a college level course designed for highly motivated students who have a strong interest in the area of American government. The course approaches government and politics in the United States from an analytical perspective and involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. Students should expect assignments of significant required reading each week, as well as required participation in many group discussions and activities as we analyze the Constitution as a document and investigate its use as the foundation of our government. Students will interpret and evaluate documents related to American government and be expected to write well-structured essays.

AP® WORLD HISTORY

This is a college level history course designed to meet the needs of highly motivated students who have a strong interest and ability in history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those

made by full-year introductory college courses. The student is expected to read and analyze both primary and secondary source materials and to demonstrate ability to interpret and evaluate these sources in essay form. Students will take the Advanced Placement® World History exam in May, as preparation for this exam is a major goal of this course. Therefore, the course is content driven with heavy emphasis on written critical analysis. Extensive reading writing and class discussions are integral components of the program.

The AP® program in World History: Modern is designed to develop a greater understanding of human societies. The course covers world history from 1200 C.E. to the present. The following themes will be highlighted throughout the course:

- Patterns and impacts of interaction among major societies: trade, war, diplomacy, and international organizations.
- The relationship of change and continuity across the world history periods covered in this course.
- The impact of technology and demography on people and the environment (population growth and decline, disease, manufacturing, migrations, agriculture, weaponry).
- Systems of social structure and gender structure (comparing major features within and among societies and assessing change).
- Cultural and intellectual developments and interactions among and within societies.
- Changes in functions and structures of states and changes in attitudes toward states and political identities (political culture), including the emergence of the nation-state (types of political organization).

Dual Enrollment

ACC 231 - USES OF ACCOUNTING INFORMATION

Are you interested in business and its financial aspects? This course introduces the uses of accounting information throughout the business cycle and how accounting information is used for internal and external purposes. Topics include Generally Accepted Accounting Principles or 'GAAP' and the preparation and analysis of financial statements.

Opportunities to apply concepts with hands-on practice are integrated throughout the course. In addition, the course's content is adaptive, allowing you to achieve mastery of the concepts on a personalized learning path. Focused on decision-making and the role of accounting in the decision-making process, this course's topics are applicable not only to business but to any situation that utilizes financial information.

ASM 246 - HUMAN ORIGINS

The course will take you on a fascinating journey through the scientific evidence for human evolution. Dr. Donald Johanson, the paleoanthropologist who found the famous skeleton "Lucy," will guide you through an overview of the hominin fossil record as well as introduce you to evolutionary theory. Take advantage of this unprecedented opportunity to dive deeper into the

world of paleoanthropological field research from Dr. Johanson's perspective.

AST 111 - INTRODUCTION TO SOLAR SYSTEMS ASTRONOMY*

Have you ever looked up at the night sky and marveled at the vastness and complexity of space? You are invited to take a deeper dive into the mindblowing world of astronomy. At the end of this course, you will walk away with the knowledge to answer the following questions:

- Where did our solar system come from?
- How is our solar system structured?
- What makes up our solar system - what are its contents?
- What are exosolar planetary systems?
- What is the history of the field of astronomy?
- Why are the various properties of light important to astronomy?
- What are the various instruments used in astronomy and how are they used?

*College algebra, or MAT 117, is strongly recommended as a prerequisite for success in this astronomy course.

BIO 100 - THE LIVING WORLD

Can we find life elsewhere in the Universe? This is one of the big questions at the forefront of scientific endeavor. It compels us to explore our celestial neighborhood, searching for signs of life in the Solar System and Earth-like planets beyond. In The Living World, you will learn about the search for life as you master concepts in general biology, including key aspects of: biodiversity; evolution; cellular biology; molecular biology; ecology; and human anatomy and physiology.

CEE 181 - TECHNOLOGICAL, SOCIAL, AND SUSTAINABLE SYSTEMS

Understand the impact of technology on sustainability and society, using relevant historical examples and current issues in the news, and gain insight on the cultural frameworks within which ideas such as sustainability and different technologies are understood and evolve. You'll also explore emerging technologies from the Industrial Revolution through present day, leading to a future that will be complex and challenging, and in many ways look like science fiction.

CHM 114 - GENERAL CHEMISTRY FOR ENGINEERS*

Have you ever wondered what's inside your mobile phone case? Why batteries aren't lighter and have to be recharged? How different colors can be shown on your computer screen? Or why glass shatters when you hit it with a hammer? These, along with other questions of how atoms and molecules combine to make macroscopic materials with desired properties, are at the heart of countless challenges addressed by chemists and engineers every day. This course is not a standard introductory chemistry course. In this course, you will learn by doing, and you will be helped along the way with instant visual and audio feedback. You will simultaneously learn the language of chemistry and how to think like a chemist by exploring the chemistry embedded in four key engineering challenges:

- Why don't we build everything out of glass?

- What are the fuels of the future?
- Can battery technology solve the energy crisis?
- How will modern materials shape tomorrow?

The course introduces general chemistry topics and explains directly how these concepts are related to engineering. You will develop the language and chemistry skills necessary to work as an engineer in a team with chemists.

*MAT 170 is strongly suggested as a prerequisite for success in this course.

CIS 105 - COMPUTER APPLICATIONS AND INFORMATION* TECHNOLOGY

This course is an introductory course with a dual focus: one focus on organizations and another focus on the individuals who work for them. At the individual level, we will examine how business decision making can be improved when supporting technologies like spreadsheets are leveraged. From the organizational perspective, we will cover strategic analysis frameworks and business strategies that can be fine-tuned for competition in an increasingly digitally transformed world.

Humans are inherently limited in how they might approach problem solving because of the cognitive biases we all bring to decision situations. Understanding these biases and how to confront them using the spreadsheet modeling knowledge gained in this class will change the way you face and solve problems. We will cover practical decisions you will deal with in many different personal and professional business settings. You will build models in spreadsheet software that serve to help you analyze problem situations in a completely new light.

*Knowledge of basic Excel functionality will be very helpful in setting you up for success in this course.

COM 100 - INTRODUCTION TO HUMAN COMMUNICATION*

This course is designed to introduce you to the basic concepts of human communication, processes, and environments. This course surveys communication topics related to culture, identity, organizations, and relationships. By the end of this course, you should have a fuller understanding of appropriate and effective communication based on your knowledge of theoretical concepts and their application.

*Knowledge of basic Excel functionality will be very helpful in setting you up for success in this course.

ECN 211 - MACROECONOMIC PRINCIPLES*

Macroeconomics is the study of the sum of all spending, income, and productive efforts. The economic outcomes that we experience are the result of our intricate dealings with other governments, businesses, and people, both locally and globally. This course will give you insight into how economists approach and measure these big issues and questions.

This first part of this course takes a look at the common household with a specific focus on how the members of a household choose their workloads and spending habits. You will also study how businesses, both large and small, make important economic decisions. The second part of this course dives into policymaking and how these policies can either distort or enhance market outcomes. You will focus on five specific areas of economic policy:

- Free trade
- Research and development & innovation
- Fiscal and tax
- Inflation and monetary

*Knowledge of basic Excel functionality will be very helpful in setting you up for success in this course.

ECN 212 - MICROECONOMIC PRINCIPLES: DECISION MAKING

Under Scarcity*

This course will help you understand decisions that are made in the face of constraints, such as the everyday transactions you make in the marketplace. As a consumer, you must consider your overall income when making a purchase, but business managers must take into account the presence of competitors in the marketplace when deciding on the price to charge you for a product. The course is divided into four parts:

In part I, you'll gain an understanding of how consumers make decisions on the types and quantities of goods to purchase.

In part II, you'll learn how managers decide how much to produce, the price to set for their products, and the amounts and types of inputs to buy.

In part III, the focus will be on the interaction between consumers and producers and the concepts of equilibrium and efficiency.

The final part of this course focuses on market distortions that are introduced by governments, such as taxes and tariffs, or those that result from the nature of the products produced or consumed.

*Knowledge of basic Excel functionality will be very helpful in setting you up for success in this course.

ENG 101 - ENGLISH COMPOSITION

This introductory composition course will help you develop and express ideas effectively for a variety of personal and professional purposes, audiences, and occasions. During the course, you will complete five major written projects, maintain a writer's journal, learn and apply a variety of concepts in the field of rhetoric and composition, and create an ePortfolio where you will showcase your work and your evolving identity as a writer.

ENG 102 - ENGLISH COMPOSITION: RESEARCH AND WRITING

This online writing course will help you understand discourse and research writing with the goal of creating solutions to issues within your local community. What sets this course apart is that you won't be learning about subjects in an abstract sense; instead, you will identify local problems and research real solutions for these problems. To achieve this, you will be equipped with the tools to:

- Create an action-oriented research question
- Make a proposal for your research project
- Perform primary and secondary research
- Design your research project for publication on the Web.

FSE 100 - INTRODUCTION TO ENGINEERING: IMAGINE. DESIGN. ENGINEER!*

Do you ever think: "There has to be a better way!" Then engineering is for you! Engineering is for anyone with a passion for problem solving. This course actively

introduces you to skills and tools that engineers use to solve problems while teaching you to think like an engineer. You will learn to identify opportunities, imagine new solutions to problems, model your creations, make data-driven decisions, build prototypes, and showcase your ideas that will impact the world.

Taught by engineering professors and highlighting industry engineers in action, this course will equip you, as an engineer-in-training, with the skills necessary to compete in today's world of innovation.

*Knowledge of basic Excel functionality will be very helpful in setting you up for success in this course.

FSE 150 - PERSPECTIVES ON GRAND CHALLENGES FOR ENGINEERING

Are you excited about new technologies that impact every facet of our lives? Are you concerned about the many problems, big or small, faced by our communities on planet earth, and want to help? This course is for you! This course will provide you with opportunities to explore the global challenges facing society, and to learn about how engineers are making an effort to address these challenges. You will hear from experts in many engineering fields talking about the National Academy of Engineering's Grand Challenges for Engineering and their groundbreaking research that is impacting communities of all sizes across the globe. Through this course, you will be equipped with an Entrepreneurial Mindset that complements the technical engineering skill set and drives innovation. The entrepreneurial mindset focuses on exercising your curiosity about the surrounding world in order to identify opportunities, make connections, and create real value for society. This course is also an active introduction to developing an interdisciplinary systems perspective, a new way of thinking and problem solving that is important to address these challenges. Through discussions and activities, you will actively explore how engineering solutions and technologies can be affected by and impact various aspects of society including economics, politics, environment, culture, and human behavior.

HEP 100 - INTRODUCTION TO HEALTH AND WELLNESS

In this online health and wellness class, you will explore a wide variety of health-related topics, including:

- How to improve your personal fitness
- How to take a credible assessment of your personal health
- The dietary decisions you need to make to help build a healthy life
- How to achieve and maintain a healthy weight
- How to manage stress
- How to maintain proper sleep hygiene
- How to lower the risk of contracting an infectious disease
- Steps you can take to reduce the risk of chronic disease
- Attitudes and beliefs related to health

HST 102 - EUROPE AND THE MEDITERRANEAN: ANCIENT AND MEDIEVAL

This first year online history course will take you on a fascinating journey through the history of Europe and the

Mediterranean from ancient times through 1500 AD. You will learn about a number of cultures and periods, including:

- Egypt and Mesopotamia
- Greece
- Rome
- Judaism
- The Byzantine Empire
- The Rise of Islam

MAT 117 - COLLEGE ALGEBRA AND PROBLEM SOLVING

This online college algebra course equips you with the skills to effectively solve problems using algebraic reasoning. What sets this course apart from a standard algebra course is its strong emphasis on the techniques that are used to solve problems. The goal is not to simply teach you mathematical forms but to help you understand the “whys” behind how you are solving problems.

Throughout this course, you will be able to participate in discussions with other students and the professor to help build your conceptual understanding of algebra. In this course, you will learn about systems of linear equations, rational functions, quadratic functions, logarithmic functions, general polynomial functions, and exponential functions.

MAT 170 - PRE-CALCULUS*

In this college-level Pre-Calculus course, you will prepare for calculus by focusing on quantitative reasoning and functions. You'll develop the skills to describe the behavior and properties of linear, exponential, logarithmic, polynomial, rational, and trigonometric functions.

*MAT 117 is strongly suggested as a prerequisite for success in this course.

MAT 210 - BRIEF CALCULUS: CALCULUS FOR BUSINESS AND ECONOMICS*

Topics covered in this course include limits and derivatives of algebraic, logarithmic, and exponential functions; the definite integral; analysis of graphs; optimization; applications of the derivative; and more. Content in this course is adaptive, allowing you to achieve mastery in a certain concept before moving on to the next. This course uses Gradarius, a calculus learning platform that personalizes your learning based on the topics you already know and the topics you still need to learn. You will also have access to individualized coaching as you move through each topic in this course.

*MAT 117 is strongly suggested as a prerequisite for success in this course.

MAT 265 - CALCULUS FOR ENGINEERS I: CALCULUS WITH ANALYTIC GEOMETRY FOR SCIENCE AND ENGINEERING*

Topics covered in this course include limits (including those involving infinity); derivatives and rates of change; continuity; applications of the derivative; linear approximation; accumulation; anti-differentiation; definite integrals; and more. Content in this course is adaptive, allowing you to achieve mastery in a certain concept before moving on to the next. This course uses Gradarius, a calculus learning platform that personalizes your learning based on the topics you already know and

the topics you still need to learn. You will also have access to individualized coaching as you move through each topic in this course.

*MAT 170 is strongly suggested as a prerequisite for success in this course.

PAF 112 - IDENTITY, SERVICE AND AMERICAN DEMOCRACY

Have you ever read the news or overheard a conversation about politics and felt helpless? You are not alone! Many people ask questions like: Does my vote matter? How do federal policies affect me? How can I make a difference? American Democracy is defined by its people participating, voicing their opinion, and making a difference.

In this course, you will learn about civic engagement and how people like you shape the world. You will also gain insight into how you can become an active and engaged member of your own community. You will interview public service leaders, investigate local issues, and form the what, why, and how of civic engagement, which you will use to create a civic action portfolio.

This course was designed through a unique partnership with Service Year Alliance and Arizona State University. This course is ideal for those looking to identify pathways to civic action, such as corps members working in their year of service, individuals who would like to get more involved in their neighborhoods and cities, or those interested in creating change in their community.

PSY 101 - INTRODUCTION TO PSYCHOLOGY

This introductory course is organized around Modules that will cover the five pillars of psychology, which include the: biological pillar, cognitive pillar, developmental pillar, social and personality pillar, and mental and physical health pillar. As students progress through each learning Module, they will review up-to-date and relevant content, engage in meaningful active learning exercises, and complete a knowledge check or assessment. In addition, the course culminates with students completing a psychology-based milestone project that students will find applicable to their own life, such in the workforce or their academic journey.

SES 106 - HABITABLE WORLDS*

Are we alone in the Universe? If so, why? If not, where are our cosmic cousins? Such questions, once the domain of science fiction, are on the verge of being answered with science facts. Astronomers are discovering planets around other stars. Planetary scientists are exploring the worlds in our solar system. Biologists are unlocking the secrets of metabolism and evolution. Geoscientists are determining how the Earth supports life. And as we struggle to build a sustainable future for ourselves, all of us are finding out how technologically advanced civilizations rise and how they might fall.

Inspired by this ongoing scientific revolution, Habitable Worlds surveys key concepts from across the major areas of science that help us to understand what makes Earth - or any other planet a habitable world.

*MAT 170 is strongly suggested as a prerequisite for success in this course.

SOC 101 - INTRODUCTION TO SOCIOLOGY

In this online sociology class, you will learn how individuals both shape and are shaped by their communities. You will learn how individuals both actively impact and are shaped by their communities, and you will explore the formation and persistence of societies that consist of diverse groups of people. You will also gain valuable insight into the dynamics of group relationships, including how to effectively interact with others within a group. Finally, you will learn how the study of sociology applies to your daily life as well as the most pressing social events of our time. The topics you will study include:

- Society and culture
- Socialization amongst people
- Stratification and inequality within society including gender roles
- Deviance and social control
- Social problems and social change
- Significant social structures in the United States, including the education system, government, and family

Elementary

LANGUAGE ARTS

LANGUAGE ARTS KA AND B

This Kindergarten Language Arts course will teach students to identify and write all letters, produce letter sounds and frequently used phonograms. Students will also master weekly sight words and reading and comprehension strategies to grow as readers. All Common Core K LA standards are met in this course.

LANGUAGE ARTS 1A AND B

This First Grade Language Arts course will teach students to identify and write all letters, produce letter sounds and frequently used phonograms. Students will also master weekly sight words and reading and comprehension strategies to grow as readers. Students will begin to develop writing skills through a variety grammar, spelling and writing activities. All Common Core 1 LA standards are met in this course.

LANGUAGE ARTS 2A AND B

The 2nd Grade Language Arts course will teach students to spell and write vocabulary, read more fluently, apply grammar concepts, and participate in handwriting and writing activities through thematic units. Students will also continue to master weekly sight words and reading and comprehension strategies to grow as readers. All Common Core 2 LA standards are met in this course.

LANGUAGE ARTS 3A AND B

This Third Grade Language Arts course will teach students reading comprehension skills, fluency, and strategies for a variety of texts including informational text to help them become stronger readers. Students will also master weekly spelling and vocabulary words and grammar concepts that will help them become stronger

writers. Students will work through the writing process to formulate and write a variety of pieces (opinion, compare/contrast, narrative.) All Common Core Third Grade LA standards are met in this course.

LANGUAGE ARTS 4A AND B

Semester A: The 4th grade Language Arts curriculum integrates reading, writing, speaking, listening, and the study of vocabulary and grammar in a way that engages today's learners and supports them in building a broad and diverse set of literacy skills. Students study classic literature as well as more contemporary forms, including media and multimedia products. Writing assignments in semester A focus on narrative and persuasive modes and emphasize the use of reasoning and details to support opinions. Each writing assignment spans several lessons and guides students through a writing process that begins with prewriting and ends by emphasizing one or more aspects of conventions of standard written English. Students also learn how to participate in collaborative discussion and peer review sessions. In each lesson, engaging and relevant models and step-by-step instruction guide students toward mastery and appreciation of 21st century communication in all its forms and functions.

Semester B: Like semester A, semester B provides an integrated curriculum. Whereas the first semester focuses on skills needed to read fiction and other literary prose, semester B teaches specific skills for reading poetry, drama, informational text. In the second semester of the course, students learn how informational text differs from literary text and how different forms of information text differ from each other. Writing assignments emphasize expository writing and guide students through research projects. Near the end of the semester, students learn how to present information orally and using multimedia.

LANGUAGE ARTS 5A AND B

Semester A: The 5th grade Language Arts curriculum integrates reading, writing, speaking, listening, and the study of vocabulary and grammar in a way that engages today's learners and supports them in building a broad and diverse set of literacy skills. Students study classic literature as well as more contemporary forms, including media and multimedia products. Writing assignments in semester A focus on narrative and persuasive modes and emphasize the use of reasoning and details to support opinions. Each writing assignment spans several lessons and guides students through a writing process that begins with prewriting and ends by emphasizing one or more aspects of conventions of standard written English. Students also learn how to participate in collaborative discussion and peer review sessions. In each lesson, engaging and relevant models and step-by-step instruction guide students toward mastery and appreciation of 21st century communication in all its forms and functions.

Semester B: Like semester A, semester B provides an integrated curriculum. Whereas the first semester focuses on skills needed for literary text, semester B focuses on skills for reading and analyzing informational text. In the second semester of the course, students learn how various

forms of information text differ. Writing assignments emphasize expository writing and guide students through research projects. Near the end of the semester, students learn how to present information orally and using multimedia.

MATHEMATICS

MATH KA AND B

Semester A: During the first semester students will learn foundational math facts. They will learn to count to 12, how to compare sizes, ordinal numbers putting items in order, what a number line is and its uses, basic measurements such as inches and feet, and how to tell time on digital and analog clocks. Students will have many opportunities to practice these new concepts by interacting with online confirmation exercises and filling out worksheets off line. A special emphasis this semester is for students to have fun with numbers, finding success with concepts such as bigger and smaller and being comfortable in an online environment.

Semester B: Students learn to count to twenty. They work with comparing objects using the terms tall, longer, and shorter as well as comparing two objects using the terms lighter and heavier. They will continue their exploration of basic geometric shapes such as cones and spheres. They will work with the concept of first, middle, and last. Arranging and sorting receive special emphasis this semester. Students will also work on writing numbers with 3, 4, and 5 given special attention. Students will learn the concepts of left and right. Coins are also a focus as students will count pennies, nickels and dimes. Finally, the number 7 is studied using the colors of the rainbow. Projects include making paper fingers and thumbs and creating designs with them. They will also make the numbers 1-10 out of dough.

MATH 1A AND B

Semester A: During the first semester students will build fluency with basic math facts. They will learn to count to 100, basic addition and subtraction facts, and how to add double-digit numbers. Students will be introduced to such new concepts as word problems, Venn diagrams, and basic geometric concepts. There is an emphasis on learning practical skills such as reading thermometers, looking at maps, and understanding the value of coins. Students will have multiple opportunities to practice new skills and knowledge through using integrated online practice problems.

Semester B: During the second semester students will begin counting by twos, fives, and tens. They will learn both vertical addition and subtraction. Students are introduced to multiplication and division and the signs used in those operations. They will also study even and odd numbers. Students continue their exploration of geometric shapes through drawing and apply what they learn about shapes by sorting various figures in Venn diagrams. They will also use a balance beam to understand the concept of weight – lighter versus heavier. As in semester A, students will have multiple opportunities to practice new skills and knowledge through using

integrated online practice problems.

MATH 2A AND B

Semester A: During the first semester students will build fluency with basic math facts and add and subtract within 100 to solve word problems using strategic methods. Students will also manipulate numbers to 1000 using knowledge of hundreds, tens, and ones. Lastly, students will demonstrate arrays with repeated addition.

Semester B: During the second semester students will use place value to add and subtract within 1000. They will use place value to estimate and solve word problems to demonstrate skills. Students will measure and compare length and represent it on a number line. They will work with money and time to compare value. Students will collect data and represented on graphs to discuss it. Lastly, they will recognize common 2 dimensional and 3 dimensional shapes by specific characteristics.

MATH 3A AND B

Semester A: During the first semester, students will build flexibility with numbers as they master addition and subtraction facts as well as multiplication and division facts. Students will understand relationships between addition and subtraction, multiplication and addition and multiplication and division as they learn to borrow, carry, and regroup in order to find sums and differences of two whole numbers up to 10,000. Students will also comprehend the place value of base ten numbers up to 1,000,000 in order to find patterns and make estimations. Lastly, they will implement a 4-step approach to solving problems and express numbers differently including translating them into Roman Numerals or expressing them as ordinal numbers.

Semester B: During the second semester, students will explore concepts of measurement including linear measurement, weight, volume, temperature, and time. They will also recognize, compare, and convert fractions. Students will write amounts of money and make change using as few coins as possible. Lastly, students will examine lines, polygons, and solid figures as they are introduced to basic concepts of geometry.

MATH 4A AND B

Semester A: Grade 4 math uses a varied amount of instructional material to reinforce and teach new math skills to the 4th grade learners. Instruction includes creative videos, mathematical storytelling, practical math applications and repetition to reinforce skills throughout the course. Three areas are focused on and students will finish the course with a strong knowledge in these content areas. The first is developing an understanding and fluency with multi-digit multiplication and developing the understanding of dividing to find quotients involving multi-digit dividends. The second is developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions with whole numbers. The third will be addressed in semester B.

Semester B: Semester B of grade 4 math has learners continuing to work with fractions. They will learn to multiply fractions and convert them to decimals. Students

will also begin to learn to equivalent measurements of length, weight, mass, and capacity. They will also learn helpful skills in understanding time, distance, and money. Students will develop an understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, angle measures, and symmetry. Lessons on rectangles, line plots, angles, figure drawing, polygons, and symmetry will be taught. Semester B continues to use varied forms of instruction that allow students to learn these skills in a practical manner.

MATH 5A AND B

Semester A: Grade 5 math uses a varied amount of instructional material to reinforce and teach new math skills to the 4th grade learners. Instruction includes creative videos, mathematical storytelling, practical math applications and repetition to reinforce skills throughout the course. Three areas are focused on and students will finish the course with a strong knowledge in these content areas.

The first is developing an understanding and fluency with multi-digit multiplication and developing the understanding of dividing to find quotients involving multi-digit dividends. The second is developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions with whole numbers. The third will be addressed in semester B.

Semester B: Semester B begins with students continuing to work with fractions. The first lesson focuses on ratios and challenges students to solve word problems using fractions and ratios in practical life situations. Learners continue to strengthen their math skills by studying mixed and fraction products, and fraction application, models, and division. The third critical area that students will focus on in Grade 5 Math is volume. Students will receive lessons in measurement of length, weight, and volume. They will end the course with a focus on geometry. Varied types of instruction are used to enhance their learning, including video and real-life applications, activities, and creative projects.

SCIENCE

SCIENCE KA AND B

Semester A: In Kindergarten Science, students in this course will use their senses to explore their world. Students experience nature walks, gardening, and imitative games by exploring varying concepts. Students will explore the changes of fall through stories and observations learning about changing leaves and squirrels. Using their senses, students will observe the nature around them. Concepts like camouflage and weather conditions will also be discussed. Students will have the opportunity to grow plants, make a terrarium and observe the behavior of magnets.

Semester B: Students in this course will continue using their senses to explore their world. Students experience nature walks, gardening, and imitative games by exploring varying concepts. Students will explore the

winter season by learning about animal tracks and the night sky. The properties of matter will also be introduced. To learn about spring, students will make leaf rubbings, grow a variety of plants and search for worms to study. The semester concludes with lessons and activities focused on bees, constellations and birds.

SCIENCE 1A AND B

Semester A: In First Grade Science, students in this course will complete projects that are designed to allow for exploration and discovery. Students observe their surroundings and through observations of the natural world conduct inquiries into topics related to their healthy development. Students will learn about the phases of the moon and the seasons. Students will also explore a variety

of topics about animals including, animal tracks, hibernation, and animal adaptations.

Semester B: Students in this course will complete projects that are designed to allow for exploration and discovery. Students observe their surroundings and through observations of the natural world conduct inquiries into topics related to their healthy development. Students will learn the steps of scientific inquiry through scientific experiments. Students will continue to explore the natural world learning about ponds and forests.

SCIENCE 2A AND B

Semester A: Second Grade Science introduces students to the process of observation and how important it is to the study of science. Learners will identify their five senses and why they are critical to observation. Students will use these observation skills throughout the course as they examine many different types of animals and their environments. Students begin by observing ants in their own environments and continue onto learning the different types of birds. Students will come to understand plant and animal rhythms and will perform small experiments with plants. Stories will be used to teach the students about nature and interactions that humans have with nature. They will continue to learn about animals and their characteristics habitats and needs. Students will learn through video, audio stories, hands-on participation and observation with nature. The teachers will conduct live assessments for the topics that had been covered throughout the week's lessons. Grade 2 Science provides students with the opportunity to expand their minds and see for themselves the way that animals and nature are a part of their everyday lives.

Semester B: Semester B of Second Grade Science begins with the students learning the characteristics of the Weaverbird and Swiftlet bird. Learners will come to understand the different groupings of animals including those with vertebrates, invertebrates and warm and cold-blooded animals, carnivores, herbivores and omnivores. Learners will be asked to recall the five senses that they discussed at the beginning of the course and compare them to the senses of animals. They will also learn how animals communicate and the relationship between animals and humans. The course ends with the students taking a closer look at the characteristics of reptiles, insects, birds of prey, and fish. At the close of the

course students will have a deeper understanding and appreciation of animals and their habitats.

SCIENCE 3A AND B

Semester A: Third grade science introduces students to experimentation as they journey through the earth and its many miracles. They will begin by learning about the earth, the sun and the moon. By participating in simple experiments students will explore the water cycle, gravity, the weather and its patterns, various types of terrain, and the role of plants in the production of oxygen and their importance to human survival. Learners will expand their knowledge through video, pictures, short readings, projects, and hands on experiments. Learners will understand that experiments require the use of instruments, observation, recording, and drawing evidence based conclusions. Grade 3 science provides students with the opportunity to expand their minds and see for themselves the way that science is a part of their everyday lives.

Semester B: Semester B of third grade science begins with the students writing a poem about the seasonal cycles. The learners continue with root formation, the interdependence of plants and humans, biomes of land and sea, extreme weather, rocks, vertebrates and invertebrates, as well as extinction. All these lessons are taught using video, projects, and experimentation. Semester B asks learners to look a bit deeper into things they encounter such as the ocean and weather.

SCIENCE 4A AND B

Semester A: Grade 4 Science includes the three main domains of science which are physical, life, and earth and space science. Learners will use various kinds of experimenting, including field studies, systematic observations, models, and controlled experiences. The course begins with the explanation of the scientific method which the students continue to use and build upon throughout the course. The big picture of the earth is examined as students review the life on planet earth, salt and fresh water, and fast and slow changes that occur on the planet. Students go beyond planet earth, though, as they study galaxies, the solar system and other planets. Students examine the ways that forces, and motion can be measured and the concept that a single kind of matter can exist as a solid, liquid or gas. Grade 4 science uses many modes of instruction including video presentations, enrichment activities, and hands-on experimentation.

Semester B: Semester B of Grade 4 Science focuses on the relationship between heat, light, sound, and electrical energy and the way they can be transferred between each other. Learners distinguish between natural objects and objects made by humans as they examine technology and the role it plays in science. Students also look at life cycles of animals, plants, and humans and how they interact with each other. The course ends by looking at the ways that humans interact with the environment. Students will use research skills, watch videos, and get their hands dirty as they complete projects that require them to dig through dirt and trash in order to learn broader lessons that have to do with helping the

environment.

SCIENCE 5A AND B

Semester A: Grade 5 Science continues to build on the science skills that have been obtained in years previous. There will be an emphasis on earth and space science, life science, and physical science. Students will begin the course by focusing on earth and space science by looking at the solar system and planets. Students will come to an understanding of the concept of the earth as a sphere and the earth's place in the solar system. The course continues with a focus on physical science and the different tools that can measure force, time, and distance. They will also grow in their understanding of how light and sound travel and interact with each other as well as the different types of energy. The semester concludes with a look into life science and the ways that organisms are interconnected. Instruction will include real life application, hands-on projects and assessments, and video and short research projects.

Semester B: Semester B puts great emphasis on life science and begins by focusing on the many ecosystems of the earth and the way that all parts of ecosystems depend on each other. Students will learn the different types of ecosystems that exist. They will learn that ecosystems change and how the changes affect their ability to support their populations. Learners will examine plants; that they have different structures and how those structures allow them to respond to different needs. Students will also grow in their understanding of the importance of good nutrition to all living organisms. The course concludes with a look into the scientific process and the importance of investigations and conclusions in the study of science. Instruction will include real life application, hands-on projects and assessments, and video and short research projects.

SOCIAL STUDIES

SOCIAL STUDIES KA AND B

Semester A: This course introduces students to their place in the community and the responsibilities of being a member of society. Great figures of U.S. history such as Pocahontas, George Washington and Abraham Lincoln are a focus of learning in this semester. Students will also learn about everyday heroes, the responsibilities of pet ownership, the importance of rules, table manners, and eating well. A skill that students will practice throughout the semester is retelling stories. Students may do this by recording audio, retelling the stories orally, or writing their observations. They will learn how to use details and basics of narratives. Projects will help students think about what pets need and defining emotions.

Semester B: In the second semester students are introduced to map reading skills. They will be taught to read maps of the U.S. and the world. From learning about location to how water is represented to floor plans, students are introduced to map skills that will last a lifetime. Students will also learn about symbols of the U.S. such as the American flag and the eagle. From there students learn about holidays with a focus on Thanksgiving. Another focus is on currency. They will

be introduced to what money is, how money can be spent, the power of buying locally, and the difference between wants and needs. Projects will include a piece on distinguishing facts from fiction, buying locally, and focusing on the differences between needs and wants.

SOCIAL STUDIES 1A AND B

Semester A: In this semester, students begin to explore fundamentals of social studies including map skills, cardinal directions, and will begin to examine maps of the U.S. and the globe. Students will also be introduced to important figures from American history such as Pocahontas, George Washington, Abraham Lincoln, and Clara Barton. A skill that students will practice throughout the semester is retelling stories. Students may do this by recording audio, retelling the stories orally, or writing their observations. They will learn how to use details and basics of narratives. Students will also make maps of their homes, neighborhoods, as well as a personal timeline.

Semester B: The second semester has a focus on introductory economics. They will study bartering, goods and services, jobs in the community, and how the marketplace works. Another focus is on positive character traits such as honesty, what the aspects of personal responsibility are, and how to help and respect others. Historic figures such as Clara Barton and characters from fiction and folklore are used as models for teaching positive traits. Students will continue practicing their five finger retelling skill with assignments on Martin Alonso (a sailor with Columbus) and George Washington. Projects will help students think about thoughtful words, showing respect, and being honest. Learners will write, draw, and perform in these projects.

SOCIAL STUDIES 2A AND B

Semester A: In second grade, students in this course will begin to explore the fundamentals of social studies including culture, geography, and economics. Students will explore the Ancient Cultures of China, Africa, and the Celts. Students will explore these cultures through ancient folk tales and fables. Learners will create a photo book that describes the significant events in their own life. They will also examine the importance of geography and direction. Students will learn how to locate boundaries while using a world map. Students will identify the places that were discussed in the previous lessons including Africa, China, and the British Isles. They will develop a rudimentary understanding of map symbols as they locate continents, the equator, and oceans. Students will also learn to identify on a road map where they live, rivers, mountain ranges and lakes nearby their homes. Learners will follow a step-by-step approach for successfully completing each lesson, which includes storytelling, repetition, projects, arts and crafts, and videos.

Semester B: The second semester begins by introducing learners to economics and the role that money plays in every civilization. They will take a closer look at the economy of the Celtic people. Students learn the difference between natural, human, and capital resources. Learners will begin to understand the exchange of money for goods and services. They will gain a basic

understanding of what scarcity is and why it is good that we do not always get everything that we want. Students will understand these concepts by drawing upon their understanding of the desires/wishes in their own lives. Students will also learn about desirable human qualities using fables such as “The Boy Who Cried Wolf.” Learners will look at individuals who have made a difference in the greater community. Students will learn about Rosa Parks and Susan B. Anthony through short stories. The end of the course asks learners to examine the diversity of the community they live in. They will be asked to recognize the different types of people around them. Students should gain an appreciation for the differences around them and how having respect for others and being honest will contribute to society. Learners will follow a step-by-step approach for successfully completing each lesson, which includes storytelling, repetition, projects, arts and crafts, and videos.

SOCIAL STUDIES 3A AND B

Semester A: In third grade, social studies students will begin to explore the fundamentals of social studies including geography, civics, and economics. Learners will begin by looking at the beginning of civilization and examining the ancient Hebrew civilization, the Phoenicians, and the Kush tribe of ancient Africa. They will then move on to examining the Native American tribes of the Cherokee, Sioux, and Hopi. Students will also look at the first explorers of the Americas and learn about the beginning of the United States. In the first semester students will learn important geographical factors which have impacted ancient civilizations, Native American tribes and the development of the United States. Students will increase their skills by creating maps and looking at the landscapes. They will take a close look at their own personal heritage by mapping their ancestry. Learners will follow a step-by-step approach for successfully completing each lesson, which includes storytelling, repetition, projects, arts and crafts, and videos.

Semester B: The second semester begins with introducing learners to economics and the role that money plays in every civilization. Students learn the difference between natural, human, and capital resources. They also examine the production of goods, trade, specialization, and interdependence, and come to understand the importance that each individual play in a society’s economy. Learners are introduced to Civics by discussing the governmental structure of the Ancient Hebrews and Phoenicians. The purpose and importance of laws and how they are enacted as well as the establishment of government are shown through stories of the Ancient Phoenicians and Native Americans. The course ends by discussing the purpose and nature of government as it relates to the United States.

SOCIAL STUDIES 4A AND B

Semester A: In grade 4 Social Studies learners will use their understanding of social studies skills to explore their local states and communities. They will begin the course by learning the topography of their area. Students

will do this by creating a detailed landscape model. This project will be hands-on and require students to do research of their communities. Learners will also research local animals and gain an understanding of local Native American ground in their part of the country. This course walks students through the research and report writing steps that will be vital to their continuation of social studies. They will continue to focus on their individual states as they do projects based on local geography, state capitols, as well as nearby natural wonders and landforms. The semester concludes with an introduction to Colonial history. The course uses video, enrichment activities, and project-based learning to enhance the student's social studies skills.

Semester B: Semester B of grade 4 Social Studies picks up where semester A left off by looking further into frontier life of the early American settlers. Students examine the difficulties that early settlers faced when reaching America. They apply knowledge of historical thinking, chronology, turning points, individuals, and themes of local and United States history in order to understand how history has shaped the present and will shape the future. They will continue the focus of local history by doing research projects on settlers from their states and on how their state became a part of the Union. The transition from the Pony Express to the Transcontinental Railroad is a major theme that shows how quickly the United States developed. Students end by creating a time capsule that demonstrates what was important to early settlers from their states.

SOCIAL STUDIES 5A AND B

Semester A: Grade 5 Social Studies combines the study of United States History through the Civil War with a geographical exploration of the United States and what it has to offer. Students will use their understanding of social studies skills and concepts as they study the development of the United States. The first semester begins with early settlements of North America and allows learners to take an in-depth look into what life was like for colonists and Native Americans. Students will come to understand the causes of the Revolutionary War and the people that played a significant role in it. The semester ends with students examining the new nation and what life was like for European immigrants and those on the frontier. Students will learn using video, journaling, and varied types of creative instruction.

Semester B: Semester B begins with an exploration of the west and what life was like for those looking to find gold. Learners will then look at slavery and what led to the Civil War. The course then takes a departure from American history and takes a more in-depth look into cultures, people, and the geography of the United States from past to present. Learners will have the opportunity to explore the country region by region and come to appreciate all that it has to offer. Students will conclude the course by planning and describing a trip they would like to take to a place within the 50 United States. Students will take a hands-on approach as they get to know the geography, climate and culture of their country. Video, creative projects involving technology, journaling, and varied assessments will be used throughout the

course.

ELECTIVES

ART DEVELOPMENT LEVEL 1, 2, 3, and 4

The importance of fine arts is a benefit, not just to the older student and population, but is a necessary area of development for the young student who will benefit with it in all areas of education. Art provides an opportunity for children to develop the use of their senses directly and encourages the student to further develop what they already know as a source of knowledge and creativity. It is important for the student to make a connection between the verbal and visual; logic and emotions; imagination and reality. Art offers the student an opportunity to express feelings and emotions in their drawings and with color. The fine art program promotes self-esteem and self-awareness as it enhances personal fulfillment. Children have a wonderful imagination that, if encouraged, will be needed throughout their life. This program provides an opportunity for self-discipline through instruction and cooperation while providing the student with an opportunity for self-expression by using imaginative thinking for creative solutions. Again, this is a necessity in lifetime experiences. The student will see the artistic expressions and inventions from cultures around the world that are part of the history of mankind and development. Modern media provides many opportunities to the student. However, the student has the benefit to experience it more closely in art classes. Repetition, important for young children, is evident in these lessons. Repetition is provided at different age levels while using various tools and mediums. Home, family and friends, pets, and toys are the young student's world. The student will begin with their personal world as they think they know it and discover so much more about it. These lessons provide a deeper awareness of the world immediately around them, and eventually their journey will grow from there. Each student is an individual with unique ideas and talents. Our goal is to provide each student an opportunity for personal growth or themselves and the world in which we live.

ARTS AND CRAFTS GRADE KA AND B

Semester A: This course provides a foundation for children's inherent artistic imagination and creativity by sharing the basics of art and making art. Students are introduced to lines, circles, recognizing and using shapes, creating a collage and concepts such as symmetry. Young artists will also explore a variety of media such as pastels, watercolors, crayons, tempera, and pencil drawing. An emphasis on this course is on creating works of art. In this semester students will work with clay, draw with pastels, make fingerprint flowers, draw barns and animals using shapes and recognizing lines using the student's name.

Semester B: Emphasis in the second semester students will be placed on applying what the students have learned to make more detailed works of art. Among the projects this semester students will be creating a bird feeder, make pig puppets, craft paper flowers, make potpourri, craft a heart collage, construct a wind chime, and press flowers.

ARTS AND CRAFTS GRADE 1A AND B

Semester A: This course provides a foundation for children's inherent artistic imagination and creativity by sharing the basics of art and making art. Students are introduced to primary colors, the color wheel, shapes such as lines and circles, and concepts such as symmetry. Young artists will also explore a variety of media such as pastels, watercolors, crayons, tempera, and pencil drawing. A emphasis on this course is on creating works of art. In this semester students will work create a watercolor tree, use a printing block, produce weather painting, and produce a watercolor painting.

Semester B: Emphasis in the second semester students will be placed on applying what the students ave learned to make more detailed works of art. In this semester students will be creating colorful calendars, stenciling, fashioning intricate flower drawings, revisiting symmetrical objects, and mixing colors. This course will provide students with opportunities to experience many different forms of arts and to express their imagination while learning valuable skills. Each student is an individual with unique ideas and talents. Our goal is to provide each student an opportunity for personal growth for themselves and the world in which we live.

ARTS AND CRAFTS GRADE 2A AND B

Semester A: This course provides an opportunity for self-discipline through instruction and cooperation while providing the student with an opportunity for self-expression by using imaginative thinking for creative solutions. Learners will begin the course by creating a color wheel and understanding the difference between primary, secondary, and complimentary colors. Learners will use watercolors to create a value chart and begin to understand symmetry in art. At the end of the semester students will work with clay and create a Memorial Clay.

Semester B: In semester B of Arts and Crafts, students will continue to explore their creativity while also learning ways that art can be functional and add to objects and materials that we use on an everyday basis. Students will begin the semester by creating a 12-month calendar. The students will focus on a new month each week. They will also be able to pick a different clay project each week from The Book of Nature Crafts and/or Clay Fun. Once students have completed the calendar project, they will begin to work on form drawing and make a seasonal chart using objects familiar with each of the four seasons. The course concludes with students working with wet crayons and wet paper.

KEYBOARDING

The keyboarding course is appropriate for elementary and middle school students. The curriculum introduces new keys by rows where students first learn the middle row, then the top row and the bottom row of the keyboard. Students are introduced to the keys through lessons and then given the opportunity to practice in typing games. The content is designed with a strong focus on sight and high frequency words. This course assumes no keyboarding experience and will guide them through the keyboard.

RECORDERS LEVEL 1

This course combines music and performing arts. Students will experience and learn new songs and perform them using their bodies. In addition, the student will begin learning how to play the recorder.

SCRATCH CODING

Scratch is a program, developed by MIT, that teaches student the basics on how computers think. This program will introduce students to real coding programs and allow them to drag and drop coding blocks creating a fully functional program. The simple user interface and tutorials allow students to quickly create and run their code to see its results! This course assumes no prior computer coding knowledge and includes self-graded multiple-choice tests and quizzes.

PHYSICAL EDUCATION KA AND B

Semester A: Elementary PE K helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include exercise safety, making healthy choices, nutrition, the benefits, components and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

Semester B: Elementary PE K helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include exercise safety, making healthy choices, nutrition, the benefits, components and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

PHYSICAL EDUCATION 1A AND B

Semester A: Elementary PE 1 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include exercise safety, making healthy choices, nutrition, the benefits, components and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

Semester B: Elementary PE 1 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include exercise safety, making healthy choices, nutrition, the benefits, components and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

PHYSICAL EDUCATION 2A AND B

Semester A: Elementary PE 2 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

Semester B: Elementary PE 2 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

PHYSICAL EDUCATION 3A AND B

Semester A: Elementary PE 3 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

Semester B: Elementary PE 3 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

PHYSICAL EDUCATION 4A AND B

Semester A: Elementary PE 4 helps young learners establish a basic understanding of health and fitness. Students focus on health related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

Semester B: Elementary PE 4 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

PHYSICAL EDUCATION 5A AND B

Semester A: Elementary PE 5 helps young learners establish a basic understanding of health and fitness.

Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

Semester B: Elementary PE 5 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

HEALTH KA AND B

Semester A: Elementary Health K helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.

Semester B: Elementary Health K helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.

HEALTH 1A AND B

Semester A: Elementary Health 1 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.

Semester B: Elementary Health 1 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.

HEALTH 2A AND B

Semester A: Elementary Health 2 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.

Semester B: Elementary Health 2 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition,

communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.

HEALTH 3A AND B

Semester A: Elementary Health 2 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, disease prevention, conflict resolution, basic anatomy and physiology, and the values of respect and cooperation.

Semester B: Elementary Health 2 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, disease prevention, conflict resolution, basic anatomy and physiology, and the values of respect and cooperation.

HEALTH 4A AND B

Semester A: Elementary Health 4 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, reducing illness, avoiding bullying, nutrition, healthy friendships, emergency situations, and the human body.

Semester B: Elementary Health 4 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, reducing illness, avoiding bullying, nutrition, healthy friendships, emergency situations, the human body, and the functions of body systems.

HEALTH 5A AND B

Semester A: Elementary Health 5 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, reducing illness, avoiding bullying, nutrition, healthy friendships, emergency situations, and the human body.

Semester B: Elementary Health 5 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, reducing illness, avoiding bullying, nutrition, healthy friendships, emergency situations, and the human body. In addition, this course covers the reproductive system, puberty and STDs.