Montgomery Virtual Program

Course Catalog 2026-2027

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* *Semester long course*

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- *Course lists are subject to change*
- *Updated 5-29-2026*

English Language Arts

ENGLISH LANGUAGE ARTS 6

This course eases students' transition to middle school with engaging, age-appropriate literary and informational 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.

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 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.

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 various 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.

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*.

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.

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.

ENGLISH LANGUAGE ARTS 12

This senior-level English course offers a 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.

LANGUAGE ARTS 12 HONORS

This senior-year honors course invites students to delve into British literature, from ancient texts such as the epic of Beowulf to 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, 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, students are given opportunities to create and participate in project-based learning activities, including creating a time travel brochure and an original interpretation of Shakespeare's *The Tragedy of Hamlet*. 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 short fiction, speeches, and poetry.*

BUSINESS ENGLISH

Business English is a year-long course where students will use technology to develop research, organization, and written and oral communication skills as they relate to a business setting. Students will learn how to communicate appropriately by investigating nonverbal and verbal communication as it applies in the workplace. These skills will help prepare students for careers or employment within Business Administration and Management career pathways such as business management, administrative services, medical administration, and office management

CONTEMPORARY AMERICAN LITERATURE*

The Contemporary American Literature course is designed to introduce high school students to the rich and diverse landscape of literature produced in the United States from the late 20th century to the present day. Through the study of various literary works, students will gain a deeper understanding of American society, culture, and historical context while exploring the themes, styles, and perspectives prevalent in modern American literature., styles, and perspectives prevalent in modern American literature.

LITERACY and COMPREHENSION I

This full-year 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 areas 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 full-year 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 areas 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 help below-grade-level students develop critical reading and writing skills. While students will explore some critical reading skills in fiction, poetry, and drama, the focus of this course will be on expository and argumentative 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 a diverse list of authors, and develop their ability to craft expository written analyses.

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 a fascinating insight into verbal and nonverbal messages and cultural and gender differences in the areas of listening and responding. High school students 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

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 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. 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.

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

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.

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 triangle 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

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.

ALGEBRA II HONORS

The course begins with a review of concepts, 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 of polynomial operations and functions allows students to 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.

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.

PRECALCULUS 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.

CALCULUS

This synchronous 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).

MATHEMATICS I

The first in an integrated math series for high school, this 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 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 to the geometry of circles and making informal arguments to derive formulas for the volumes of various solids.

MATHEMATICS III

This 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.

MATHEMATICS I HONORS

Mathematics I is the first course in a three-year series of integrated math courses. The integrated math series is an alternative to the traditional Algebra I – Geometry – Algebra II pathway, placing some Geometry in each year of instruction. 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 congruency theorems. Equations and figures in the coordinate plane assist in connecting Algebra and Geometry through coordinates. The structure and content of this course naturally guides students to experience mathematics as a rational, beneficial subject that challenges students to critically think through problem situations.

MATHEMATICS II HONORS

Mathematics II is the second course in a three-year series of integrated math courses. The integrated math series is an alternative to the traditional Algebra I – Geometry – Algebra II pathway, placing some Geometry in each year of instruction. This course begins by focusing on the extension of the number system. Students evaluate functions, touch on exponential functions, and explore the operations of polynomials. Next, nonlinear functions are covered before students complete a unit on factoring polynomials using various methods. The course continues with quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and Honors exponential relationships from previous courses. As quadratic equations become more multifaceted, real and complex numbers are introduced to extend the set of rational numbers which can be used to solve quadratic equations. Students also explore the link between probability and data through conditional probability, two-way tables, and counting methods. Finally, this course challenges students to make connections between algebra and geometry as they study similarity, right triangle trigonometry and proofs, as well as circles with and without coordinates. Students are able to use coordinates to prove simple geometric theorems algebraically as well as analyze two- and three-dimensional figures. The content within this course allows students to practice problem solving and critical thinking as they attempt real-world scenario math problems.

MATHEMATICS III HONORS

Mathematics III is the third course in a three-year series of integrated math courses. The integrated math series is an alternative to the traditional Algebra I – Geometry – Algebra II pathway, placing some Geometry in each year of instruction. This 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, 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 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 mathematical concepts.

MATH MODELS WITH APPLICATIONS HONORS (EdgeEx)

Math Models and Applications is an applied mathematics course in which students use logical reasoning, probability, statistics, functional modeling, geometric and spatial reasoning, and discrete mathematics to analyze real-world situations and make informed decisions. Students explore logic and proof, mathematical patterns, ratios and variation, exponential relationships, and data analysis techniques including regression, distributions, and statistical inference. They apply counting methods and probability models, work with vectors, matrices, and three-dimensional representations, and use graph theory and voting theory to study networks, fairness, and decision-making systems. Throughout the course, students use multiple representations, mathematical technology, and problem-solving strategies to model real phenomena, evaluate outcomes, and communicate clear, well-reasoned conclusions.

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.

FINANCIAL MATH HONORS (EdgeEx)

This high school-level course extends prior knowledge of math concepts and has students apply these concepts to financial contexts. Students will apply math to solve real-world problems, develop financial literacy, and analyze data. They will learn about budgeting in both personal and business contexts. They will learn about financial concepts including income, taxes, insurance, investments, and personal decisions, as well as how these may affect budgets. Students will develop an understanding of how credit cards, loans, and retirement planning can impact a given financial scenario. Students will also work with scenarios dealing with home and automobile ownership or leasing. Students will model and analyze scenarios related to these real-world financial concepts using ratios, proportions, and functions. They will make decisions related to these financial scenarios and use mathematics to justify their decisions. Students will apply the mathematical practices and use technology as they complete tasks that require them to think critically, solve problems, and communicate their reasoning.

PROBABILITY AND STATISTICS

This full-year 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.

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.

TRIGONOMETRY HONORS* (EdgeEx)

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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 dynamic course explore the scope of Earth sciences, covering everything from basic structure and rock formation to the incredible and volatile forces that have shaped and changed our planet. As climate change and energy conservation become increasingly prevalent in the national discourse, it will be important for students to understand the concepts and causes of our changing Earth. Earth Science is a two-semester course that provides a solid foundation for understanding the physical characteristics that make the planet Earth unique and examines 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.

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

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.

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.

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.

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.

PHYSICS

This full-year course acquaints students with topics in classical and modern physics. The course emphasizes a 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.

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

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 the 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.

MODERN WORLD HISTORY

This year-long course examines the major events and turning points in 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 sharpen their writing skills in shorter tasks and assignments, and practice outlining and drafting skills by writing full informative and argumentative essays.

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.

SURVEY OF WORLD HISTORY

This year-long course examines the major events and turning points in 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.

U.S. HISTORY: 1850 TO PRESENT

This is a year-long course that examines the major events and turning points in 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.

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.

SURVEY OF U.S. 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.

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.

U.S. 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.

BLACK HISTORY IN AMERICA 1A* AND 1B*

By examining the stories of brave men and women who persevered, built community and contributed to our nation's goals—sometimes amid great persecution—we can all learn how to pave a brighter future. Learn about the incredible history of Black people who have left a mark on the fabric of the United States to the ways the country has wrestled with its past to understand slavery, emancipation, and the fight for civil rights in our nation. *Students will need to be enrolled separately in each semester course.

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.

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 and 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.

GEOGRAPHY

This year-long course examines the numerous physical processes that have shaped the world's landscapes, as well as various historical, political, and economic forces that 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.

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. 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.

World Languages - Middle School

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 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 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 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 vocabulary theme and grammar concept, 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.

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.

World Languages - High School

AMERICAN SIGN LANGUAGE 1: A JOURNEY OF CONNECTION

This full year course is designed to introduce learners to the unique characteristics of a visual language. This is not a class about ASL; it is a class in ASL. Learners will be guided through engaging activities and interactions using signs, facial expressions, gestures and body language in order to communicate about authentic and relevant everyday topics. Learners will also explore elements of Deaf culture and the ways in which language and culture interact to shape each other. This exploration will allow learners to reexamine spoken languages, including their own, and the ways in which their cultural experiences have been shaped by language. Throughout, learners will be challenged to reconsider their understanding of ability/disability as they experience a whole new means of communication. Because of the visual nature of ASL and the interactive nature of this course, camera use is required and class sizes may be capped.

AMERICAN SIGN LANGUAGE 2: MEETING PEOPLE

In this full year course learners will be introduced to the real stories of different Deaf individuals. As they interact with this series of video narratives, they will experience the diversity of the Deaf world and of ASL as a language. Class discussions will allow learners to consider the variations of ASL, individual signing styles, and how their use changes in different kinds of interactions and settings. By the end of the course, learners will have the skills and confidence to approach authentic interaction with ASL users. Because of the visual nature of ASL and the interactive nature of this course, camera use is required and class sizes may be capped.

AMERICAN SIGN LANGUAGE 3: STORYTELLING

In this full year course learners will take the skills and concepts learned in ASL 1 and 2 and apply them more broadly to a variety of topics and settings. Again, they will be introduced to the real stories of four new Deaf individuals. As they interact with this series of video narratives, learners will focus not only on receptive skills, but work to enhance their expressive and conversational skills. Class discussions will allow them to consider various perspectives in the Deaf community, engage in ASL-English translation, and express personal narratives, tell stories and have authentic conversations exclusively in ASL. Because of the visual nature of ASL and the interactive nature of this course, camera use is required and class sizes may be capped.

AMERICAN SIGN LANGUAGE 4: LANGUAGE IN ACTION

IIn this full year course, learners will become adaptive, open-minded problem solvers ready to use what they have learned from previous ASL courses in the world beyond high school. In this dynamic and interactive course, they will apply their language skills to real-world scenarios and practice navigating miscommunications. An exploration of how language and culture intersect will broaden learners' perspectives, and prepare them to engage with what's current in the world of ASL and Deaf Culture. This course is centered on peer interactions and open discussions, and provides a supportive space for learners to learn from each other. Because of the visual nature of ASL and the interactive nature of this course, camera use is required and class sizes may be capped.

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 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 and 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. 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 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. The unit consists of an ongoing adventure story, a 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 across the globe.

HIGH SCHOOL FRENCH II
This asynchronous course continues the introduction to French in this second-year, high school language course with a 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 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 a 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. Inter-cultural 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 GERMAN 5

This course has a weekly synchronous component. German 5 is designed to develop an authentic and practical understanding of the German language and culture. Learners will have the ability to express their thoughts, feelings, and opinions in the target language within more advanced, real-life situations and learning scenarios. All new concepts will be introduced in context through the use of novels as the primary text, while incorporating various listening, speaking and writing activities. The main focus of this course is on the development of communication skills and knowledge about recent social, cultural, and political developments in Germany through texts, media and film. CEFR level A2/B1, ACTFL level intermediate mid to intermediate high. This course requires the additional purchase of four novels.

- *Gefaehrlicher Einkauf* by Volker Borbein and Christian Baumgarten
- *Fuer S.* by Angelika Bohn
- *Anne Frank Tagebuch* by Anne Frank
- *Am kuerzeren Ende der Sonnenallee* by Thomas Brussig.

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 structures. 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 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 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 tense. 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 a 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.

Advanced Placement®

All AP® courses are school year only, self paced (unless cohort is indicated), and may 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. Summer work information will be emailed to the student upon enrollment in the course. Students enrolled in Advanced Placement courses are expected to take the AP® exam, and to report their AP® exam scores to the vendor. By enrolling in an AP® class, the student authorizes their school administration to report AP® exam scores. Exam results will not affect the student's grade or future enrollment in courses. Please note that courses enrolled through VHS Learning do have a proctored final. Please reach out to MVP for more details.

AP® CALCULUS AB

This college-level, full-year course prepares students for or the Advanced Placement (AP) Calculus AB Exam. Major topics of study in this full-year course include a review of pre-calculus, limits, derivatives, definite integrals, mathematical modeling of differential equations, and the applications of these concepts. Emphasis is placed on the use of technology to solve problems and draw conclusions The course utilizes a multi-representative approach to calculus with concepts and problems expressed numerically, graphically, verbally, and analytically.

AP® CALCULUS BC

The Advanced Placement Calculus BC course is equivalent to a first and second-semester college calculus courses devoted to topics in differential and integral calculus including parametrically defined curves, polar curves, and vector-valued functions; develops additional integration techniques and applications; and introduces the topics of sequences and series. The rigor of this course is consistent with colleges and universities and will prepare students for the Advanced Placement exam in May. Students will explore topics within the three big ideas covered in the course: (1) Change, (2) Limits, and (3) Analysis of Functions. Students will investigate topics such as limits and continuity, differentiation – definition and fundamental properties, differentiation – composite, implicit, and inverse functions, contextual applications of differentiation, analytical applications of differentiation, integration and accumulation of change, differential equations, applications of integrations, parametric equations, polar coordinates, and vector-valued functions, and infinite sequences and series. Prerequisites: Four years of secondary mathematics 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® ECONOMICS (COHORT ONLY)

This comprehensive Advanced Placement® Economics course combines Macroeconomics and Microeconomics, equivalent to two semesters of college-level study. Students will explore core concepts such as market behavior, supply and demand, national income, and public policy while preparing for both AP® exams in May. The curriculum emphasizes real-world applications and marginal analysis, utilizing adaptive problem sets and My AP Classroom resources to master economic indicators and stabilization policies. Prerequisites & Requirements: Skills: Proficiency in basic mathematics and graphing.
Summer Work: A mandatory summer assignment must be completed by the end of Week 1.
Exam: Students are expected to take the AP® exams and must register through a local testing site.

AP® ENGLISH LANGUAGE AND COMPOSITION

In this introductory college-level course, students advance their understanding of rhetoric and writing through the reading, analyzing, and writing of rhetorical texts. Throughout the course, students explore the basic tenets of writing and argumentation, such as rhetorical situation, claims and evidence, reasoning and organization, and style. Students will read and analyze a variety of nonfiction genres, including essays, journalism articles, political writings, science writings, nature writings, autobiographies, biographies, diaries, speeches, history writings, and criticisms from multiple perspectives and backgrounds. The primary focus is on writing evidence-based analytical, synthesis, and argumentative essays and analyzing the rhetorical choices of a wide range of nonfiction writers. In addition to explicit instruction and a variety of independent and collaborative learning opportunities, the course offers specific exam preparation lessons and practice.

AP® ENGLISH LITERATURE AND COMPOSITION

In this introductory college-level course, students develop the fundamentals of literary analysis and introductory college compositions. The course focuses on analyzing, evaluating, and interpreting literary fiction, poetry, and drama from a range of literary periods, authors, and perspectives. The diverse canon allows students to explore the function of character, setting, structure, narrator, and figurative language. Through a wide range of instruction and collaborative writing activities, students articulate their interpretation of literature through writing. The course includes exam preparation and practice that anticipates common student misconceptions.

AP® ENVIRONMENTAL SCIENCE

Environmental Science is a laboratory- and field-based course designed to provide students with the content and skills needed to understand the various interrelationships in the natural world, to identify and analyze environmental problems, and to propose and examine solutions to these problems. Since this is an online course, the laboratory- and field-based activities will be completed virtually and via experiments that students can easily perform at home with common materials. The course is intended to be the equivalent of a one-semester, college-level ecology course, which is taught over a full year in high school. The course encompasses human population dynamics, interrelationships in nature, energy flow, resources, environmental quality, human impact on environmental systems, and environmental law

AP® HUMAN GEOGRAPHY

This course provides students with a geographic perspective through which to view the world. Through a combination of direct instruction, documentary videos, and online readings, students will explore geographic concepts, theories, and models; human-environment interactions; and interactions among human systems. Topics covered include population, culture, political organization of space, agricultural land use, industrialization, and urban land use. Students will demonstrate their understanding and acquisition of skills through essays, document-based questions, student collaborative activities, and practice exams.

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 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.

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 C: Mechanics

This AP course is equivalent to a one-semester college course for scientists and engineers, AP® Physics C: Mechanics is a calculus-based program focused on kinematics, Newton's Laws, energy, and rotational motion. Students will utilize differential and integral calculus to solve complex problems and engage in a comprehensive lab program featuring hands-on kits and virtual simulations. The curriculum is designed to prepare students for the AP® Mechanics Exam through integrated resources like My AP Classroom and rigorous scientific analysis. Prerequisites & Expectations:

Completion of a full-year, lab-based physics course and concurrent enrollment in or completion of AP Calculus is required. Students are expected to take the AP Exam in May and must coordinate registration through a local testing site.

AP® PRE-CALCULUS

In this AP® Pre-Calculus course, students will explore function analysis and trigonometry. Students will investigate functions such as polynomial, rational, exponential, logarithmic, trigonometric, and polar and explore vectors, and matrices. This course incorporates a variety of textbook and multimedia resources including an adaptive problem set platform that provides various feedback on student assessments. Students will also engage in collaborative activities, including discussions, and connect precalculus concepts to real-world applications to develop a deeper understanding of mathematics in today's world.

Prerequisites: Successful completion of Algebra 2 and Geometry. Students are required to have access to a TI-83/TI-84 Plus graphing calculator.

AP® PSYCHOLOGY

This course will introduce students to the systematic study of the behavior and mental processes of human means and animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major fields within psychology. Students also learn about the methods psychologists use in their science and practice. The major aim of this course is to provide each student with a learning experience equivalent to that obtained in most introductory college psychology courses. In addition, this course has been designed to help students successfully achieve a passing score on the AP Psychology exam.

AP® SPANISH LANGUAGE AND CULTURE

In this AP® Spanish Language and Culture course, students will explore six big ideas: 1) Families in Different Societies; 2) The Influence of Language and Culture on Identity; 3) Influences of Beauty and Art; 4) How Science and Technology Affect Our Lives; 5) Factors That Impact the Quality of Life; and 6) Environmental, Political, and Societal Challenges.

Students will develop their Spanish skills through three modes of communication: interpretive, interpersonal, and presentational. There are six required course themes: Families and Communities, Personal and Public Identities, Beauty and Aesthetics, Science and Technology, Contemporary Life, and Global Challenges. Each unit targets a primary theme but also connects to additional recommended contexts for those themes. Teaching to multiple themes ensures a rich curriculum that will spiral, as the themes are revisited through a variety of lenses throughout the course. This allows students to experience the study of language and culture in a variety of authentic and engaging ways. This course is a rigorous course taught exclusively in Spanish that requires students to improve their proficiency across the three modes of communication, further divided into six course modes. The course focuses on the integration of a wide variety of authentic resources from all over the Spanish-speaking world. Through these authentic texts, students gain meaningful linguistic and cultural growth and insight, leading to greater communication and also interculturality. Using rich, advanced vocabulary and language structures students will build proficiency in all modes of communication toward the intermediate high to advanced low proficiency levels (ACTFL Performance Descriptors). Prerequisites:

- At a minimum, completion of Spanish 3 if the course is equivalent to an intermediate high proficiency level course; completion of Spanish 4 is recommended. Heritage speakers may have followed a different path.
- Grade of a B or better in the most recent Spanish class.
- Grammar and syntax of the language and strong skills in speaking, writing, reading, and understanding Spanish are required.

AP® STATISTICS

Major topics of study include exploring one-and two-variable data, sampling, experimentation, probability, sampling distributions, and statistical inference. These topics are organized into three big ideas: variation and distribution, patterns and uncertainty, data-based predictions, decisions, and conclusions.

AP® UNITED STATES GOVERNMENT AND POLITICS*

In this one-semester college-level course, students will study the Constitutional underpinnings and structure of the United States government, issues of politics and political parties, and topics in civil rights and public policy, demonstrating their understanding and acquisition of skills through written work, project-based activities, and practice exams.

AP® UNITED STATES HISTORY

This course surveys the history of the United States from the settlement of the New World to modern times. The course emphasizes themes such as national identity, economic transformation, immigration, politics, international relations, geography, and social and cultural change. Students learn to assess historical materials, weigh the evidence and interpretations presented in historical scholarship, and analyze and express historical understanding in writing.

AP® WORLD HISTORY: MODERN

This advanced study of world history explores historical themes common to societies around the world and across time periods, from 1200 to the present day. Emphasis is placed on document analysis, historical thinking skills, reasoning processes, and essay writing. Students will demonstrate their understanding and acquisition of skills through written work, document-based questions, project-based activities, and practice exams.

Exceptional Students

The Exceptional Students Course Suite provides supportive, scaffolded instruction with built-in accommodations in core subject areas (mathematics, language arts, science, and social studies) to support the needs of exceptional students. The courses feature developmentally appropriate lessons for students working three or more grade levels behind. Courses run on the same platform as other courses, with the same familiar tools for students and functionality. Each course includes approximately 25 lessons but may be a full year of content for students with significant cognitive challenges. Prior to enrollment in these courses, the IEP team should discuss placement with the team and MVP Special Education Coordinator, Cassie Brusch (cbrusch@mciu.org).

LANGUAGE ARTS

READING & WRITING I*
Students will learn strategies for pre-reading and reading across fiction and nonfiction texts written at third- and fourth-grade reading levels. Focus skills include fiction elements like plot and setting, as well as nonfiction features like structure and details. Students will also learn critical vocabulary strategies.

READING & WRITING II*
Students will learn strategies for pre-reading and reading across fiction and nonfiction texts written at fourth- and fifth-grade reading levels. Focus skills include fiction elements like characterization and narrative, as well as nonfiction features like central ideas and arguments. Students will also learn critical vocabulary strategies and compose a narrative essay.

READING & WRITING III*
Students will learn strategies for pre-reading and reading across fiction and nonfiction texts written at fifth- and sixth-grade reading levels. Focus skills include fiction elements like conflict and theme, as well as nonfiction features like synthesizing ideas and evaluating media. Students will also learn critical vocabulary strategies and compose an essay analyzing poetry.

READING & WRITING IV*
Students will learn strategies for pre-reading and reading across fiction and nonfiction texts written at sixth- and seventh-grade reading levels. Focus skills include fiction elements like point of view and character development, as well as nonfiction features like questioning and drawing conclusions. Students will also learn critical vocabulary strategies and compose an argumentative essay.

Exceptional Students (continued)

MATHEMATICS

BASIC MATH I*
Students will review whole-number operations, the relationships between operations, and the application of whole-number operations to real-world problems students will encounter in their lives as consumers and citizens. Students will also review basic fractions and decimals from a conceptual and procedure lens, and apply them to real-world problems.

BASIC MATH II*
Students will review basic fraction and decimal concepts and procedures with a focus on comparisons and benchmarks. Students will review and apply fraction and decimal operations to an array of real-world problems.

BASIC ALGEBRA I* and II*
Students will build on their knowledge of fractions and decimals as they explore ratios and rates and build the foundation for slope and linear relationships. They will also explore the concepts of variables and model real-world relationships with expressions and equations. *Students will need to be enrolled separately in each semester course

BASIC GEOMETRY I* and II*
Students will learn about important geometry concepts like angles, perimeter, area, surface area, scale drawings, and volume. They will gain a deep understanding of these through conceptual, procedural, and real-world applications. Students will engage in problem-solving activities that connect geometric principles to everyday situations, enhancing their analytical skills and practical knowledge.
*Students will need to be enrolled separately in each semester course.

BASIC STATISTICS AND PROBABILITY*
Students will review the essentials of data analysis as they explore data representation through graphs and summaries, learn to compare and interpret various data sets, and apply statistical tools for in-depth analysis. The course also covers probability concepts and statistical inference to make informed predictions and decisions.

Exceptional Students (continued)

SCIENCE

LIFE SCIENCE ESSENTIALS I* and II*
Students will explore concepts that are the foundation of the study of living organisms and their interactions with the environment. They will delve into topics such as cell biology, genetics, classification of living organisms, and human biology. Students will develop general scientific skills and practices as they engage in critical thinking and scientific inquiry.
*Students will need to be enrolled separately in each semester course.

EARTH SCIENCE ESSENTIALS I* AND II*
Students will learn about the Earth's composition, delving into its layers and the rocks and minerals that form its structure. Students will also explore the significance of Earth's waters, including oceans, rivers, and lakes, and investigate how weather systems and climate affect our environment. Additionally, students will discover how the Earth interacts with other celestial bodies in the solar system.
*Students will need to be enrolled separately in each semester course.

PHYSICAL SCIENCE ESSENTIALS I* AND II*
Students will learn fundamental concepts of physical science while developing strategies in general scientific skills and practices. Topics will include energy and motion, properties and applications of waves, structures of elements on the periodic table, physical and chemical reactions, and the properties of matter.
*Students will need to be enrolled separately in each semester course.

Exceptional Students (continued)

SOCIAL STUDIES

CIVICS AND GOVERNMENT ESSENTIALS*
Students will learn how important founding documents shaped the government of the United States. Important units of study include Introduction to Government, Foundation of U.S. Government, The U.S. Constitution, Branches of Government, and Civil Liberties. Focus skills include analyzing primary and secondary sources, interpreting charts and graphs, and interpreting Supreme Court cases.

ECONOMICS ESSENTIALS*
Students will learn basic economic concepts and life skills related to personal finance. Important economic topics will include economic systems, scarcity, and economic decision making. Focus skills include interpreting supply and demand curves, determining opportunity costs, and interpreting charts and graphs.

PERSONAL FINANCE ESSENTIALS*
Students will develop life skills that are essential for managing their money effectively. They will learn how to create and use a budget, save for future goals, and make smart investment choices. Additionally, students will gain the ability to evaluate financial decisions and plan for their long-term financial well-being.

U.S. HISTORY ESSENTIALS I* AND II*
Students will explore five pivotal eras in United States history: Reconstruction, Progressivism and Imperialism, World Wars, Movements for Civil Rights, and the Modern Era. They will gain a deeper understanding of how these themes have shaped the nation's past and continue to influence its present.
*Students will need to be enrolled separately in each semester course.

WORLD HISTORY ESSENTIALS I* AND II*
Students will learn foundational world history concepts and skills as they examine the Renaissance, Enlightenment and the Scientific Revolution, Imperialism, International Conflict, and Globalization/Modern Issues. Focus skills include analyzing secondary and primary sources, interpreting charts, graphs, and maps, and writing short responses and essays.
*Students will need to be enrolled separately in each semester course.

Electives

ACCOUNTING 1A*

Accounting is more than numbers and spreadsheets; it's about unlocking the secrets of financial success and understanding how to drive a company forward. The individual who understands business finances holds sway in the organization. From decoding financial statements to mastering corporate ethics, real-world scenarios expose you to accounting principles and provide opportunities to apply your knowledge. Whether you're exploring if accounting aligns with your career aspirations or you dream of becoming an entrepreneur and want to gain a deeper understanding of managing the "books", this course will empower you to navigate accounting and make excellent decisions.

ACCOUNTING 1B*

This course is not about crunching numbers; it's about understanding how accounting shapes business and how you can make a difference. Building on what you already know, this course takes you deeper into real-life applications of the accounting cycle. You will explore how modern tools, like inventory management, payroll, and cutting-edge technology, are shaping accounting today. Think like a boss as you work on a project throughout this course: managing internal controls for your own fictional company. Accounting is your chance to make an amazing impact in business and life.

ADVANCED NETWORKING 1A*

In this course, you will learn about a variety of different networks, their layers, and the different needs they address. You'll uncover best practices for setting up secure remote access connections, techniques to troubleshoot and think strategically, and correct documentation. Lastly, you'll learn tips to successfully communicate in the workplace.

ADVANCED NETWORKING 1B*

In this course, you'll learn the methods used to manage traffic, transmissions, and users based on organizational needs and the important decisions that go into building an optimal network. You'll explore types of malicious attacks and the role that risk management plays in the strategic planning to prepare for, monitor, and efficiently remediate damage. Lastly, you'll investigate processes that can be used to prevent, monitor, and notify of these events to employ action plans quickly

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 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!

AGRIBUSINESS SYSTEMS*
Agribusiness Systems is a semester-length 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 1: INTRODUCTION TO AGRISCIENCE*
In this 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 2A* AND 2B*: 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 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. *Students will need to be enrolled separately in each semester course.

ANATOMY AND PHYSIOLOGY 1A*
Whether you plan on pursuing a career in health sciences or simply looking to gain an understanding of how the human body works, you'll first need to understand the relationship between anatomy and physiology. Learn how to read your body's story through understanding cell structure and their processes, and discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems.

ANATOMY AND PHYSIOLOGY 1B*
Examine the form and function of even more body systems. Learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics.

ANIMAL SYSTEMS*
This semester-long high school course 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 a 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.

ANTHROPOLOGY 1: 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 2: MORE HUMAN MYSTERIES UNCOVERED*

Anthropology has helped us better understand cultures around the world and through different time periods. This 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 given 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 the 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 APPRECIATION

This full-year course offers a broad exploration of visual art through cultural, historical, and technical lenses. Students investigate how art functions in politics, commemoration, religion, and self-expression across global civilizations. Emphasis is placed on analyzing elements and principles of design, refining critique skills, and interpreting meaning through symbolism and context. Students study diverse media including drawing, painting, sculpture, ceramics, and architecture, alongside major art movements such as Renaissance, Impressionism, and Modernism

ART HISTORY*

This one-semester course explores the evolution of artistic expression from prehistoric cave paintings to modern art movements. Students examine how art reflects the cultural, political, religious, and social contexts of civilizations across time and geography. Major topics include classical antiquity, medieval and Renaissance developments, global contributions from Africa to the Pacific, and artistic revolutions of the 18th to 20th centuries. Through analysis of key works, artists, and movements, students learn to interpret symbolism, style, and technique.

ASTRONOMY 1A* AND 1B*: 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 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. * Students will need to be enrolled separately in each semester course.

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 1A: INTRODUCTION*
Biotechnology is a cutting-edge, high-demand field that encompasses everything from plant and animal breeding to genetics. Discover how biotechnology has changed the world around us, from food to genetics. Explore historical applications with modern discoveries. Understand how regulations and ethics govern the course of biotechnology and learn of its importance to the field of medicine.

BIOTECHNOLOGY 1B: UNLOCKING NATURE'S SECRETS*
Learn how and why biotechnology is so important to the agricultural, pharmaceutical, and genetic fields of study. You'll learn about mapping the human genome, the role of antibiotics, how medicine is created to combat diseases, and the future of the biotechnology field.

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 INFORMATION MANAGEMENT 1A*
Wherever your path may lead you, having the essential knowledge of business types, requirements to start a business, understanding of finances, business law, marketing, sales, customer service, and more, will ensure you're on the path to success.

BUSINESS INFORMATION MANAGEMENT 1B*
Learn about professional conduct, teamwork, and managerial skills, while also examining careers in business technology. The basics of word processing, spreadsheets, databases, and presentation software are also explored so that you become better prepared for jobs in this field.

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 full-year course prepares middle or high 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 introduces 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.

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 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 units 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.

CAREER PLANNING AND DEVELOPMENT 1A* AND 1B*

Introducing high school students to the working world, this year-long 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 course includes lessons in which students create a self-assessment profile, a cover letter, and a résumé that can be used in their educational or career portfolio. *Students will need to be enrolled separately in each semester course. This course is also offered as semester-long by taking 1A only.

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.

CAREERS IN CRIMINAL JUSTICE 1A* AND 1B*
The criminal justice system offers a wide range of career opportunities. In this course, students will explore different areas of the criminal justice system, including the trial process, the juvenile justice system, and the correctional system. *Students will need to be enrolled separately in each semester course.

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.

CHILD DEVELOPMENT 1A*
If you're considering a career in education, medicine, psychology, or areas that involve toddlers to teens, you'll need to know how they grow and develop. In this course, you will learn about the ages from womb through adolescence and the teen years. You'll explore essential topics like nature vs. nurture, developmental theories and stages, nutrition, safety precautions, family planning, and more.

CHILD DEVELOPMENT 1B*
You have learned the basics of child development, and now it's time to dig deeper into the psyche and behaviors of children. In this course, you will learn about setting boundaries, creating rules, and enforcing consequences when working with children. You will explore helping kids and teens manage stress, provide support for children with disabilities and enrichment for gifted children, how to perform first aid, and more. You will also set goals for your future career working with children and adolescents.

COMPUTER APPLICATIONS – OFFICE 2019/OFFICE 365
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 2019 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®. Note: This course includes examples from both Office 2019 and Office 365®. Required Materials: Students need access to MS Office 2019 or Office 365.

COMPUTER SCIENCE PRINCIPLES

This full-year course is available as both an elective and a CTE course. Students will explore the foundations of computer science 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. Required Materials: Activities in this course require Python or the Python Anywhere app (Chromebook), the Pythonista app (iPad), or similar

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 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 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. This course gives high school students an introductory, yet thorough view of many aspects of corrections operations 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 a variety of careers in this growing field.

CREATIVE WRITING: UNLEASHING THE CORE OF YOUR IMAGINATION*

Think about the Declaration of Independence, the Bill of Rights, and Lincoln's 2nd In Augural Address. How have these writings shaped our country and the future? While you learn how to unleash the core of your imagination to develop your own creative writing, you'll also explore creative writing through foundational literary works from the 18th to 20th century of Colonialism to American to Modernism, and everything in between, while evaluating original writings and their interpretations.

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 while others do not? What aspects of 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 1A and 1B*

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. Students will need to be enrolled separately in each semester course.

CULINARY ARTS 2: BAKING, PASTRY, AND MORE!*

Whether students aspire to be world-class chef or just want to learn the skills needed to create their own dishes, they'll build a strong foundation and grow their knowledge of this exciting industry. Students will explore baking and desserts, learn how to prepare proteins and study nutrition and safety in the kitchen. They will enhance their understanding of sustainability in the food industry, learn to prepare meals from a global perspective, and dissect the business of cooking, from managing a kitchen to successfully running a catering company.

CYBERSECURITY 1A* AND 1B*

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 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. This yearlong course is comprised of two parts: Cybersecurity 1A: Foundations and Cybersecurity 1B: Defense Against Threats. The course requires the following:

- Slideshow 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 of free hard disk space
- Supported Operating System: Windows, Mac OS X, Linux, Solaris and OpenSolaris.

*Students will need to be enrolled separately in each semester course.

DIGITAL DESIGN 1A*

Discover your talent for building digital media applications using text, graphics, animations, sounds, videos, and more! Learn about the elements that make impressive media, such as typography, color theory, design, and manipulation. Explore careers to apply your digital media skills and find your place in this fast-paced and exciting field!

DIGITAL DESIGN 1B*

Are you ready to dig deeper and discover more about the world of digital design? In this course, you will continue building the foundational skills necessary to become a successful graphic designer. You will learn and apply effective communication and people skills, explore and implement the design process, create images, properly use equipment, and evaluate and market your own designs. By the end of the course, you'll better be able to decide if a career in digital design is for you... and if the answer is yes, you'll be well on your way to designing a bright future!

DIGITAL LITERACY*

This semester-long elective provides a foundation for understanding key applications, computing fundamentals, and online living. This course focuses on describing technology basics including finger placement on the keyboard and the differences between hardware and software. Students describe the functions of operating systems and their utilities, identify computer networks, how they work, and computer and internet safety. Students identify different communications industries and how to use email, Microsoft Word®, PowerPoint®, and Outlook®, describe how to create spreadsheets, enter data, create graphs, and use formulas and shortcuts in spreadsheets. Additionally, students will identify the functions of PowerPoint®, digital media, intellectual property law, workplace crimes, privacy concerns, digital citizenship, and how to stay safe on social media. Required materials: Students must have access to MS Office or Office 365, including Access, Excel, Outlook, PowerPoint, and Word.

DIGITAL MARKETING 1A*

Digital marketing is where creativity meets strategy, and innovation is the name of game. Explore how to captivate audiences in the digital landscape. From mastering social media platforms to crafting compelling content that leaves a lasting impression and evaluating the successes (and failures) of innovative brands, students learn the secrets behind building a powerful online presence. Analyzing the consumer and their journey, students learn the power of storytelling and how to pull their promotional strategy into a multi-channel campaign.

DIGITAL MARKETING 1B*

How do your favorite brands become famous online? Learn how companies connect with an audience by exploring the details behind social media campaigns and mastering the art of content creation. Get hands-on with positioning, promoting, and building communities while learning about the behind the scenes of planning and data analytics. With videos, real-life examples, and case studies, you will see what works (what does not) in digital marketing. Plus, you gain insight into the different careers in this exciting marketing field. Get ready to discover the power of digital marketing!

DIGITAL MEDIA WEB DESIGN 2A*
Digital media may be a webpage, video, image, podcast, form, or more. Explore how you can develop webpages that embed different media and interactivity for excellent user experience through programming languages such as HTML and CSS. Examine trends and opportunities, education requirements, student organizations, and industry certification options. Prerequisite: It is recommended students take Fundamentals of Digital Media.

DIGITAL MEDIA WEB DESIGN 2B*
Before you can design a great eCommerce store, it's essential to understand how one works. Learn the trends, design principles, and security strategies. Explore what it means to adhere to ethical and legal requirements and comply with industry standards and accessibility. It's time to start designing the next best eCommerce site!

DIGITAL PHOTOGRAPHY 1A* AND 1B*: 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 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. Materials: Digital camera, camera cables, subjects and objects for photo shoots, lighting, tripod/stable support, art supplies, video recording device. *Students will need to be enrolled separately in each semester course.

DIGITAL PHOTOGRAPHY 2: 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 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. Materials: Digital camera/smartphone and photo frame.

EARLY CHILDHOOD EDUCATION 1A* AND 1B*
Want to have an impact on the most important years of human development? 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. *Students will need to be enrolled separately in each semester course.

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.

ETHNIC STUDIES*
In this one-semester course, students will explore five key themes: (1) Identity, (2) Race and Ethnicity in the United States, (3) History and Movement, (4) Systems of Power, and (5) Social Movements and Equity. Through a series of videos, texts, interactive lessons, case studies, and projects, students will critically examine the diverse cultural histories, social dynamics, and critical perspectives that shape the United States. From examining the experiences of diverse ethnic groups, to deconstructing systems of power that perpetuate inequality, the course encourages critical analysis and empathy.

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 DESIGN*
Are your students fashion trend followers? Are they drawn to how designers have pulled together fabrics and colors to create memorable pieces? Do they dream of designing their own line of clothing or accessories? Students will learn what it takes to get started in the fashion industry, from the careers available to new technology and trends reshaping the industry every day. Students will start creating today!

FOOD PRODUCTS & 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 explores the history and evolution of food products, along with the processing methods that have arisen to feed an evergrowing 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 1: 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 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 2: 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 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.

FORESTRY AND NATURAL RESOURCES*

Forests and other natural resources play an important role in our world, from providing lumber and paper products to providing habitats for birds and animals. In the Introduction to Forestry and Natural Resources 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.

FUNDAMENTALS OF DIGITAL MEDIA*
This semester-long course 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. It 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. 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.

GOTHIC LITERATURE: MONSTER STORIES*
From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This 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 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 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 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. 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 multi-disciplinary 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 & TOURISM 1: 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 are one of the fastest-growing industries in the world. This 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.

HOSPITALITY AND TOURISM 2A* AND 2B*: HOTEL AND RESTAURANT MANAGEMENT
In this 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. They will discover trends and technological advances that make 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. *Students will need to be enrolled separately in each semester course.

HOTEL MANAGEMENT 1A*
In this course, you will learn about the business of hospitality and the different types of hotel ownership and programs. You'll explore the essential functions of a hotel from bookings, management systems, front and back of house operations, technologies, and more. You'll also discover what it takes to keep guests happy and run a sustainable program.

HOTEL MANAGEMENT 1B*
In this course, you'll dig deeper into hotel organization from structure to departments and staffing needs. You'll explore management and leadership including types of managers; management styles, roles, and responsibilities; and technical and communication management skills. You'll also learn more about the big picture of the travel and tourism industry, how to handle emergencies, growth and sustainability, laws and ethics, careers in the industry, and more!

HUMAN RESOURCE MANAGEMENT 1A*
In this course, you will wear the shoes of a Human Resource Management (HRM) professional and will learn how to build and manage a team to help a company reach its goals. You will also explore and perform some of the key responsibilities of an HRM professional: research, interviewing, reporting, recruiting, hiring, assessing employees, and more!

HUMAN RESOURCE MANAGEMENT 1B*
In this course, you'll step into the shoes of an HRM professional and explore key duties such as onboarding, training and development, retaining and terminating employees, safety and risk management, company communication, and more! You'll also learn about different career opportunities in the field of HRM, develop collateral based on real-world scenarios involving HRM tasks and responsibilities, and the role of HRM in a global environment.

INTERIOR DESIGN*
Are you constantly redecorating your room? If so, the design industry might just be for you! In this 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.

INTERNATIONAL BUSINESS: GLOBAL COMMERCE IN THE 21ST CENTURY*
From geography to culture Global Business is an exciting topic in the business community today. This 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 of business, investigating why and how companies go international and are more interconnected. The course further provides students with 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 an 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 two-semester 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.

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 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 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 COMPUTER SCIENCE

This course is available as both an elective and a CTE course. 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, 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. Required Materials: Activities in this course require that Python is installed on students' computers.

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 presentation 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 HEALTH SCIENCE

This full-year 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 healthcare field.

INTRODUCTION TO INFORMATION TECHNOLOGY

This yearlong 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.

INTRODUCTION TO INFORMATION TECHNOLOGY SUPPORT AND SERVICES*

This semester-long course focuses on real-world applications, 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 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. Students explore the strategies frequently used to solve problems in these disciplines. Students discover their strengths through practical applications and awareness of STEM careers.

JOURNALISM 1A* AND 1B*: 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 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! 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. *Students will need to be enrolled separately in each semester course.

KEYBOARDING AND APPLICATIONS*

Keyboarding and Applications is a semester-long course that teaches 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. Students gain an understanding of computer hardware, operating systems, file management, and the Internet. Students apply their keyboarding skills to create a variety of business documents, including word processing and presentations. Required: Word-processing (e.g., MS Word) and Presentation software (e.g., MS PowerPoint).

LAW & 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 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 nation.

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 ADMIN SPECIALIST 1A*

A rewarding career as a legal administrator means you are responsible for the day-to-day operations in a law firm, and therefore, need to learn the fundamentals of law. You'll need to understand the specifics of researching, creating, processing, filing legal documents, and more. Jumpstart your career in law by learning what it takes to be a legal admin.

LEGAL ADMIN SPECIALIST 1B*

Wherever your legal admin career takes you, understanding the responsibilities of a law office requires strict attention to detail, communication skills, office competence, and legal savvy. What does a legal admin need to know and what duties do they perform? How do confidentiality, cybersecurity, and client relations look different in a legal office? Learn the answers to these questions and so much more for this exciting career with endless opportunities to prove your value, learn, and grow.

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.

MANAGEMENT 1A*
Explore foundational management concepts such as leadership, managing teams, entrepreneurship, global business, finance, and technology and innovation. Engage in a capstone that pulls all of the concepts you've learned together, allowing you to see how management ideas can be applied to a business case study.

MANAGEMENT 1B*
Explore the ins and outs of this career, the responsibilities businesses have towards customers, and hiring the right employees. Gain an understanding of human resources (HR) to ensure job satisfaction and take action to ensure that rules and laws are being followed. Learn how to become an effective manager.

MANUFACTURING 1A*
Do you ever look at your man-made surroundings and find yourself fascinated at how it was created? Modern manufacturing is the answer. In this course, you will learn the big picture of manufacturing—categories, how companies decide what to produce and how to produce it, and making items in the most cost-effective way. You will also study the history of manufacturing technologies, so you can see the future possibilities for manufacturing more clearly as you start to do activities where you'll learn how your ideas can become a reality. Get ready to unveil how modern manufacturing creates the world we live in.

MANUFACTURING 1B*
We live in a manufactured world. From the chair you're sitting on to each semiconductor in the screen you're looking at, most of the objects in your life came out of a factory. While the knowledge, materials, and skills needed to create these objects are distinct, there are many commonalities in the manufacturing process. Ideas need to be generated, resources need to be managed, and teams need to be led. This course will cover many of these commonalities, including managing resources, product development, operations, testing, teamwork, documentation, and much more. You'll learn both what is involved in the various areas of manufacturing and what a career in different fields would be like. Along the way, you'll do activities that enrich your knowledge and give you the opportunity to delve into the areas that interest you most. A career in manufacturing is a chance to help make the world we live in!

MARINE SCIENCE 1A* AND 1B*: 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. *Students will need to be enrolled separately in each semester course.

MARKETING FOUNDATIONS 1A*
Learn about the role of marketing in business in addition to the basics of business management, customer service, and economics. Examine how to identify target markets, perform market research, and develop successful marketing strategies. Discover the legal and ethical considerations of business and marketing, along with the impact of government on business.

MARKETING FOUNDATIONS 1B*
Become a marketing mix pro by studying and understanding branding, advertising, promotion strategies, and more, through real-world applications and practices. And explore the secrets of advertising and promotion. Learn about effective sales techniques and discover employment opportunities to pursue a career in this exciting field!

MARKETING 2A*
Without a solid understanding of business and international marketing strategy, it becomes nearly impossible to be successful and stand out from the crowd. Discover how business and marketing works around the world. You'll learn about topics such as regulations, market research, marketing plans, global trends, buying and selling internationally, and more.

MARKETING 2B*
This course explores the secrets to sales. You'll learn expectations, best practices, sales planning, building a clientele that becomes long-term buyers, and how to stay motivated to sell, sell, sell! If sales management is your goal, you'll learn about management styles, how to find, hire, train, motivate, and compensate your team.

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 healthcare 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.

MIDDLE SCHOOL 2D STUDIO ART 1A* AND 1B*
Journey inside the art studio and learn to bring your 2D art visions to life. Whatever medium you prefer, painting or drawing, this 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 into the art of critiquing. * Students will need to be enrolled separately in each semester course.

MIDDLE SCHOOL COMPUTER SCIENCE 1A* AND 1B*
Middle School Computer Science is a full-year course designed to introduce students in grades 6-8 to computer science as a vehicle for problem solving, communication, and personal expression. This course focuses on the visible aspects of computing and computer science centering on the immediately observable and personally applicable elements of computer science while also asking students to look outward and explore the impact of computer science on society. Students will explore the design process with creative, hands-on learning opportunities to create programs and collaborate with peers while learning specific aspects of computer science including problem solving, programming, physical computing, user-centered design, and data. Required Materials: Access to the Microsoft Office suite or similar product line Python and Scratch Recommended for devices running Windows 10 or higher or MacOS. *Students will need to be enrolled separately in each semester course.

MIDDLE SCHOOL DIGITAL ART AND DESIGN 1A* AND 1B*
Digital art and design involves everything from advertising to animation to photography and more. In this 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. *Students will need to be enrolled separately in each semester course.

MIDDLE SCHOOL EXPLORING BUSINESS*
Are you interested in business, leading people, or making decisions to help a business be successful? While there are many different career choices in the field of business, in this course, you'll discover options such as management, human resources, business operations, information management, and accounting. Explore the skills you'll need, common tasks, the technology used, and characteristics of various business careers.

MIDDLE SCHOOL EXPLORING HEALTH SCIENCE*
Where do healthcare workers spend their days? What do they really do? From cruise ships to sports arenas, you can find healthcare workers in many places that you might not expect. Explore this field, including what it would be like to work in a medical lab. Learn what it takes to keep you and your patients safe, and begin to learn about the human body and basic first-aid.

MIDDLE SCHOOL EXPLORING MUSIC 1A* AND 1B*
Learn about how we hear music, its history and culture, and how it affects our lives. 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. Required: a device with video and audio recording capabilities. *Students will need to be enrolled separately in each semester course.

MIDDLE SCHOOL JOURNALISM 1A* AND 1B*: 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 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. *Students will need to be enrolled separately in each semester course.

MIDDLE SCHOOL PHOTOGRAPHY 1A AND 1B: 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. Students examine photographic careers and explore self-reflection to progress their creative growth as they develop a photographic portfolio. This full-year course helps students select subjects, take a photograph, and print and display memories! *Students will need to be enrolled separately in each semester course.

MIDDLE SCHOOL ROBOTICS 1A: INTRODUCTION*
If you love the idea of identifying and solving problems through machine technology, then engineering may be the perfect profession for you! In this course, you'll learn about the types of engineers and engineering activities that are involved in designing robots. You'll explore the design process, models and software engineers use, careers in engineering and robotics, and more! You'll also use Micro:bit—a powerful pocketsized computer—to enhance your learning! Let's get ready to think like an engineer!

MIDDLE SCHOOL ROBOTICS 1B: ROBOTS IN MOTION*
Let's build a robot! Ever wonder how robots came to be and how they evolved over time? Is their impact on society good, bad, or somewhere in between? You will explore these topics and more. You will study a robot's anatomy to understand what each part does, so you can better understand how the system works as a whole, and this knowledge will fire up your imagination to design your own robot. You will also learn a little about programming so that you can communicate with the robot. Let's get started bringing your robot to life!

MUSIC COMPOSITION AND SONGWRITING*
Students will explore the foundations of music theory and composition by analyzing diverse genres and creating original songwriting projects. Using Noteflight notation software, participants will write for various instruments, collaborate with peers, and refine their work in alignment with National Core Arts Standards. Through a mix of interactive online resources and weekly discussions, students will develop their unique musical aesthetic while mastering the creative process from initial planning to final presentation. Prerequisites include proficiency in reading treble and bass clef tonal melodies, with at least one semester of applied musical instruction recommended. Due to software terms of service, students must be 13 years of age or older. Please note that this course concludes with a proctored final exam. This course is on the VHS Learning platform.

MUSIC APPRECIATION: THE ENJOYMENT OF LISTENING*
Music is part of everyday life and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This 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 & FOLKLORE: LEGENDARY TALES*
Mighty heroes. Angry gods and goddesses. Cunning animals. Since the first people gathered around fires, mythology and folklore have been used as a way to make sense of humankind and our world. Beginning with an overview of mythology and different kinds of folklore, 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 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*
This network course 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 and introduced to network models. Students 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. Required materials: MS Office 2016.

OFFICE ADMINISTRATION 1A*
Explore what it means to have effective verbal and written communication, speaking, and listening skills to work with diverse people and teams. Then dive into learning how to leverage various technology and software businesses use to stay connected and productive.

OFFICE ADMINISTRATION 1B*
You will explore the responsibilities of an administrative professional to understand what a typical workday looks like and even what goes into searching for an administrative professional role: searching, applying, and securing.

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 note-taking, 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.

OPERATIONAL CYBERSECURITY 1A*
In this course, you will assume your role as Chief Information Security Officer (CICO) responsible for a data network's design, maintenance, and end-user training. You will explore the essentials of keeping networks safe and secure through the use of cryptology, keys, and certificates before moving into the important practice of risk assessment. In the end, your attention will shift to mitigating and managing identified risks and working with key stakeholders to improve the organization's security posture and disaster response.

OPERATIONAL CYBERSECURITY 1B*
In this course, you will dive into data security in the workplace and will learn ways to mitigate cyber threats that lurk in dark corners. You will step into the familiar shoes of CISO, this time at a startup company, making decisions about access and authentication protocols, security planning, and expanding the business in a safe way. Lastly, you will explore real-world security breaches, how they were solved, and step-by-step instructions to set up robust security policies.

PHILOSOPHY: THE BIG PICTURE*
This 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 completed this course, you will better understand yourself and the world around you…from atoms to outer space…and everything in between.

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 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 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.

PERSONAL PSYCHOLOGY 1*
In this course, you'll explore the broad scope of psychology from biology's impact on our psychological makeup to society's impact on who we become. You'll look closely at the changing and sometimes conflicting thoughts of researchers and scientists and how the field of psychology has changed. You'll also explore clinical psychology and how people find treatment.

PERSONAL PSYCHOLOGY 2*
Why do you sometimes remember complex things but forget all of a sudden where you left your shoes? Why is your personality similar to or different from your siblings? Why do some things motivate you more than others? Discover how you learn and remember, the impact of stress on your emotions and mental health, and what influences your personality and emotions.

PHYSICIANS, PHARMACISTS, DENTISTS, VETERINARIANS, AND OTHER DOCTORS*

Physicians, Pharmacists, Dentists, Veterinarians, and Other Doctors focus on preparation for physician-level careers, including dental, veterinary and pharmaceutical, along with a look into the physician assistant and alternative medicine systems. This semester-long course also introduces the topics of diversity and the move toward social and cultural skills in medicine, in addition to academic ability. This course focuses on the preparation for entry to practice, along with navigating the field once you are in it (working as part of a team, dealing with patients, etc.). Students choose their career path by studying different roles, responsibilities, settings, education needs, and amounts of patient contact. Degree and training requirements, working environment, salaries, and the day in the life of that career is also covered in this course. Students explore important aspects that are applicable to the entire health field, such as behaving ethically, keeping patients safe and free from infections and germs, and following laws and policies.

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-length 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 such as agronomy, horticulture, or landscape design.

PRINCIPLES OF 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 an 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.

PRINCIPLES OF PUBLIC SERVICE: TO SERVE AND PROTECT*

Have you ever wondered who decides where to put roads? Or make 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 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!

PROFESSIONAL SALES AND PROMOTION 1A*
In this course, you'll learn about the bigger picture of the sales cycle. You'll examine the role of today's sales professional along with the skills and qualities needed for success, and you'll learn the ins and outs of the sales process and how it is driven by recognizing and responding to customer needs.

PROFESSIONAL SALES AND PROMOTION 1B*
In this course, you'll explore the power of promotion and how to rise to the ranks of an elite sales and promotions rep. You'll dive into what it takes to be a stellar seller, how salespeople work together in teams to meet goals, and how the savviest sales managers employ proven sales methods mixed with technology, tools, and psychological insights to build and operate an efficient sales team

PUBLIC SPEAKING 1A* AND 1B*
The art of public speaking is one which underpins the very foundations of Western society. This 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. *Students will need to be enrolled separately in each semester course.

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. 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.

RENEWABLE TECHNOLOGIES 1A* AND 1B*
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 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. *Students will need to be enrolled separately in each semester 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 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.

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.

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 MEDIA: OUR CONNECTED WORLD*
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 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. Required materials: Social Media accounts are required to use this course.

SOCIAL PROBLEMS 1: 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 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 2: CRISIS, CONFLICTS & CHALLENGES*
The Social Problems 2 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 1*
Human beings are complex creatures, and when we interact and begin to form relationships and societies, things become even more complicated. Are we more likely to act differently in a group than we will when we're alone? How do we learn how to be "human"? Examine answers to these questions and many more as you explore culture, group behavior, and societal institutions and how they affect human behavior.

SOCIOLOGY 2*
Have you ever looked at your social media feed and wondered why there is always so much fighting over social issues? Discover how social institutions like families, religion, government, and education shape our world and how collective behavior and social movements can create change. Investigate how our lives are shaped by entertainment, social institutions, and social change.

SOFTWARE DEVELOPMENT TOOLS*

This semester-long course introduces students to a 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 1A* AND 1B*

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. You'll 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. *Students will need to be enrolled separately in each semester course.

SPORTS MEDICINE 1A*

What do you think of when you hear the phrase "sports medicine professional"? Do you think of a doctor? Or maybe you think of a coach? Believe it or not, the term encompasses a much larger range of career options that expands further than jobs typically associated with this field. Would you believe that massage therapists, dietitians, and facility managers are considered to be part of the sports medicine industry? Together, we'll take a deep dive into a few of the most popular career paths available in the field today. We will also take a look at and discuss some of the day-to-day duties and legal obligations of a sports medicine professional.

SPORTS MEDICINE 1B*

In Sports Medicine 1B: Injury Prevention, you'll expand your understanding of the human body to provide a greater context for injury in a variety of scenarios. You'll learn how to evaluate an injury, onsite tests to perform, and when to refer a patient to a medical professional. You'll also explore the anatomy of specific body areas to better understand injuries that may occur as well as ways to prevent injury.

SPORTS MEDICINE 2A*

Have you ever wondered what happens inside your body to help you make the perfect pitch or run the fastest race or lift the heaviest load? What is the body actually doing in each of the systems to guarantee that you can successfully, without injury, execute the moves you wish to make? Finally, you must prepare the body for these masterful moves, so what steps do you take to ensure your body is ready for that all-out push? These questions should be on the minds of those training for competition and for those wishing to be more physically fit.

SPORTS MEDICINE 2B*

In this course, you will be introduced to teaching group exercise classes and providing rehabilitation services to clients facing injury and disease. You will also learn about laws that govern the work of sports medicine professionals, business concerns like insurance and staffing, and what you need to consider if you start your own fitness facility.

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.

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.

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 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.

VIDEO GAME DESIGN*
This course introduces students to creating games for mobile, console, and PC using the Unity environment and C# programming. Following the Unity Essentials and Junior Programmer pathways, students will master the Unity editor, build 3D environments with complex lighting, and develop coding skills like collision detection and instantiation. The curriculum emphasizes the iterative process through peer reviews and culminates in a final project where students design and develop a unique 2D or 3D game. Prerequisites & Requirements: This introductory course requires no prior programming experience but does include a proctored final exam. Students must have a 64-bit Windows or Mac computer with at least 8GB of RAM and 30GB of free space; Chromebooks and iPads are not compatible. Participants will also be required to create Unity 3D and Visual Studio accounts.

VISUAL ARTS*
This one-semester course introduces students to the foundations and functions of visual art through hands-on exploration and critical analysis. Students investigate the elements and principles of design, experiment with various media and techniques, and analyze the purpose and message behind art from diverse cultural and historical perspectives. Emphasis is placed on personal creativity, visual communication, and technical development in drawing, painting, printmaking, sculpture, digital imagery, and architecture. Students also study how art reflects political, religious, and social ideas while developing skills in critique and visual literacy

WEB DEVELOPMENT 2A*
You'll hit the ground running with the Agile methodology of software development and how it plays into leadership and teamwork amongst developers. You'll also approach web development from a different perspective- your users!- and you'll learn to speak the language of JavaScript to enhance your web development efforts. Your efforts will commence in a professional portfolio that will allow you to experience GitHub to display your work.

WEB DEVELOPMENT 2B*
In this course, you'll explore topics and hone skills to help you perfect your portfolio so it's ready to share with future employers. You'll discover common coding errors and security threats, website accessibility and reliability, and become more fluent and efficient in JavaScript. You'll also learn how to make on-the-job choices and adjustments and refine communication with your clients. In the end, you'll turn your website into a presentation to share with friends and family so you can showcase your achievements. Prerequisite: It is recommended students take Web Development 2A.

WORLD RELIGIONS: EXPLORING DIVERSITY*
Throughout the ages, religions from around the world have shaped the political, social, and cultural aspects of societies. This course focuses on the major religions that have played a role in human history, including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, and Taosim. 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 & 2
This two-semester course guides students through an indepth 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.

CONTEMPORARY HEALTH A* and B*
Available as either a semester (PA-CORE ALIGNED) or a full year (NATIONAL-CORE ALIGNED), 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.

CREDIT RECOVERY PE I & 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 & CONSUMER SCIENCES*
This course prepares students with a variety of skills for independent or family living. Topics covered include child care, 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*
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 & 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 I*
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 II*
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 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 & 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.

HEALTH CAREERS*
In Health Careers 1, 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.

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.

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, 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.

INTRO 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, dance, biking, swimming, 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, FITT principles, benefits of fitness, safety and technique, and good nutrition. Students conduct fitness assessments and participate in weekly physical activity.

LIFE SKILLS*
This 7-12 grade level 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.

LIFETIME FITNESS
Exploring fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, and stress management, this 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.

MIDDLE SCHOOL FITNESS BASICS 1 & 2
This course is designed to provide students with FITNES 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 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 HEALTH QUEST*
This middle school 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.

MIDDLE SCHOOL INTRO TO GROUP SPORTS 1 & 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 of 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 INTRO TO INDIVIDUAL SPORTS 1 & 2

This course provides students with an overview of individual sports. Students learn about a variety of sports, yet do an indepth study of running, walking, strength training, yoga, dance, biking, swimming, and cross-training. Students learn not only the history, rules, and guidelines of each sport, but practice flexibility.

NUTRITION AND WELLNESS*

This 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.

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 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 PREP*

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. Recommended Pre-Requisites: Exercise Science and/or Personal Training Concepts.

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. Additional Information: This course is a good preparatory course for students interested in or wishing to pursue a career in health, sports, or fitness. It provides fundamental information about health and fitness that would be necessary for any fitness career field. This elective course does NOT require students to participate in a regular exercise program. This course can be used, however, for students with physical limitations that need PE credit and are unable to participate in regular exercise.

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.

ELEMENTARY COURSES

Elementary courses have an optional synchronous component. Synchronous elementary students meet daily for an hour with their teacher to practice specific skills in math, ELA, social studies, and science. In addition, all synchronous students who are scoring below 70% in math or ELA will receive an additional, weekly targeted intervention session with their teacher for each subject.

K-5 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 3rd 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 3rd 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, and 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.

K-5 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. The 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 with 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 represent 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.

K-5 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 warmand 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 it's 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.

K-5 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 there 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 lessons, which includes storytelling, repetition, projects, arts and crafts, and videos.

SOCIAL STUDIES 2A AND B (CONTINUED)

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.

SOCIAL STUDIES 4A AND B (CONTINUED)

Semester B: Semester B of grade 4 Social Studies picks up where semester A left off by looking further into the 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 Unites States history in order to understand how history has shaped the present and will shape the future. They will continue the focus on 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 state.

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 55 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 lead 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.

K-5 ART, MUSIC, TECHNOLOGY

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 from 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 though out 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. 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. Our goal is to provide each student with an opportunity for personal growth for themselves and the world in which we live. To help with course selection, please use this guide:

- Art Development Levels 1 and 2 are for students in Grade 3
- Art Development Levels 2 and 3 are for students in Grade 4
- Art Development Levels 3 and 4 are for students in Grade 5

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 in 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 recognize 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 create 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. An emphasis in this course is on creating works of art. In this semester students will work to create a watercolor tree, use a printing block, produce a weather painting, and produce a watercolor painting.

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. 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 art 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 with 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 complementary 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 semester-long 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.

RECORDERS LEVEL 1*

This semester-long 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. Students will need a Recorder for this course.

SCRATCH CODING*

Scratch is a program, developed by MIT, that teaches students the basics of how computers think. This semester-long course will introduce students to real coding programs, allowing them to drag and drop coding blocks to create 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.

K-5 PHYSICAL EDUCATION AND HEALTH

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.

Montgomery Virtual Program

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