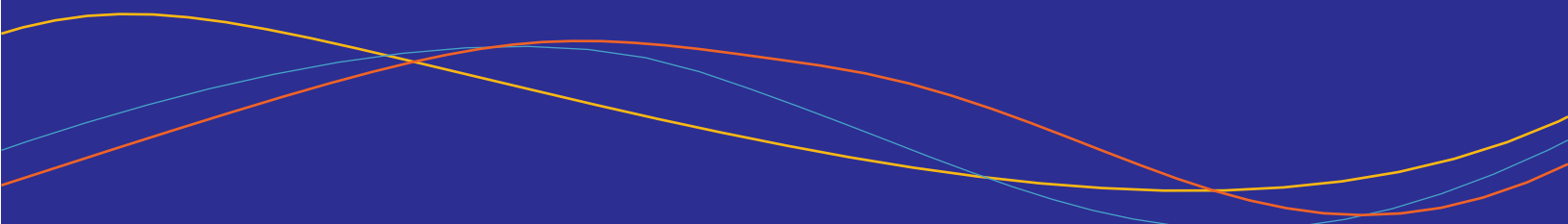




Greenbush Virtual Academy  
Course Catalog  
High School/Middle School  
2024-2025



GREENBUSH  
**VIRTUAL  
ACADEMY**

The logo features a stylized graphic of three curved lines in yellow and green, resembling a signal or a person's head and shoulders. Below the graphic, the text "GREENBUSH" is in a smaller, all-caps font, and "VIRTUAL ACADEMY" is in a larger, bold, all-caps font.

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# English Language Arts



## ENGLISH LANGUAGE ARTS 6

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

## ENGLISH LANGUAGE ARTS 7

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

## ENGLISH LANGUAGE ARTS 8

In this course, students build on their knowledge and blossom as thoughtful readers and clear, effective writers. A balance of literary and informational texts engage students throughout the course in reading critically, analyzing texts, and citing evidence to support claims. Students sharpen their vocabulary, grammar, and listening skills through lessons designed to provide explicit modeling

and ample opportunities to practice. Students also routinely write responses to texts they have read, and use more extensive, process-based lessons to produce full-length essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.

## ENGLISH LANGUAGE ARTS 9 A & B

This freshman-year English course engages students in literary analysis and inferential evaluation of great texts both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, students will master comprehension and literary-analysis strategies. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their oral language skills and produce clear, coherent writing. Students will read a range of classic texts including *The Odyssey*, *Romeo and Juliet*, and "The Most Dangerous Game."

## ENGLISH LANGUAGE ARTS 10 A & B

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

## ENGLISH LANGUAGE ARTS 11 A & B

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, Herman Melville, Emily Dickinson, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers.

### ENGLISH LANGUAGE ARTS 12 A & B

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

### ENGLISH LANGUAGE ARTS 12 A & B HONORS

The honors version of this course provides enrichment with additional lessons. Honors reading lessons provide exposure to complex texts and support the student in a deep analysis of literature. Honors writing and research instruction includes applying MLA style in a research paper, using critical lenses in written literary analysis, and producing written work on digital and multimedia platforms. This course provides instruction with a continued focus on academic rigor and college readiness.

### LITERACY & COMPREHENSION II A & B

Offering high-interest topics to motivate students who are reading two to three levels below grade, These courses use a thematic and contemporary approach to motivate students and expose them to effective instructional principles using diverse content area and real-world texts. Both courses offer an engaging technology-based interface that inspires and challenges students to gain knowledge and proficiency in the following comprehension strategies: summarizing, questioning, previewing and predicting, recognizing text structure, visualizing, making inferences, and monitoring understanding with metacognition. Aimed at improving fluency and vocabulary, self-evaluation strategies built into these courses inspire students to take control of their learning. **Literacy & Comprehension II is a High School level course** and is divided into 2 semesters.

### INTRODUCTION TO COMMUNICATIONS/ SPEECH

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

### EXPOSITORY READING AND WRITING A & B

This elective English course is designed to develop critical reading and writing skills while preparing high school students to meet the demands of college-level work. While students will explore some critical reading skills in fiction and poetry, the focus of this course will be on expository and persuasive texts and the analytical reading skills that are necessary for college success. This course is an ideal offering for students in upper high school grades who plan to attend college but need to develop stronger expository reading and writing skills to be successful.

### WRITING SKILLS A & B

This elective English course is designed to develop critical writing skills while preparing high school students to meet the demands of college-level work. This course uses the writing process and the Six Traits of effective writing as an overarching framework that encompasses targeted lessons on reputable research, effective communication, solid grammar, and compelling style. Students will have hands-on experience writing personal reflections, definition essays, persuasive and informative pieces, and literary analyses.

## **ELA FOUNDATIONS**

This 9<sup>th</sup> grade level English course is designed to introduce students to examining literary texts, delving into information and argumentative texts, and identifying basic grammar and writing concepts.

## **BUSINESS ENGLISH A & B**

In these courses, students will use technology to develop and research, organization, and written and oral communications 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.

## **JOURNALISM AND MASS COMMUNICATIONS**

This high school grade level course is designed to introduce students to best practices in Digital and Online Media, Visual Arts, Print Technology, Video and Broadcasting. This course has several projects and presentations included.

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

## MATHEMATICS 7

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

## MATHEMATICS 8

The course begins with a unit on input-output relationships that builds a foundation for learning about functions. Students make connections between verbal, numeric, algebraic, and graphical representations of relations and apply this knowledge to create linear functions that can be used to model and solve mathematical and real-world problems. Technology is used to build deeper connections among representations. Students focus on formulating expressions and equations, including modeling an association in bivariate data with a linear equation, and writing and solving linear equations and systems of linear equations. Students develop a deeper understanding of how translations, rotations, reflections, and dilations of distances and angles affect congruency and similarity. Students develop rules of exponents and use them to simplify exponential expressions. Students extend rules of exponents as they perform operations with numbers in scientific notation. Estimating and comparing square roots of non-perfect squares to perfect squares exposes students to irrational numbers and lays the foundation for applications such as the Pythagorean theorem, distance, and volume.

## PRE-ALGEBRA A & B

This 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. **There is a Middle School level course and a High School level course available.**

## ALGEBRA I A & B

This 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. **There is a Middle School level course and a High School level course available.**

## GEOMETRY A & B

This 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 geometry 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. This course closes with a study of set theory and probability, as students apply theoretical and experimental probability to make decisions informed by data analysis.

## ALGEBRA II A & B

This 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. The course includes quadratics and complex numbers, factoring polynomials, rational functions, and radical functions. The course continues with exponential and logarithmic functions, statistics and probability, trigonometric functions, and mathematical modeling.

## HONORS ALGEBRA II A & B

This course focuses on functions, polynomials, periodic phenomena, and collecting and analyzing data. Students will 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 between the operations and field properties of real numbers and those of complex numbers and algebraic expressions.

## PRECALCULUS A & B

With an emphasis on function families and their representations, Precalculus is a thoughtful introduction to advanced studies leading to calculus. The course briefly reviews linear equations, inequalities, and systems and moves into the study of functions. The course covers advanced study of trigonometric functions, matrices, and vectors and concludes with a study of probability and statistics.

## MATHEMATICAL MODELS WITH APPLICATIONS A & B

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. Lessons cover financial topics, including growth, smart money, saving, and installment loan models. Prior mathematical knowledge is expanded, and new knowledge and techniques are developed through real-world application of useful mathematical concepts.

## FINANCIAL MATH A & B

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. Topics covered include personal financial planning, income, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, and buying a house. The course also covers topics such as consumer loans, consumer credit/debt, economic principles, traveling abroad, starting a business, and analyzing business data. This course encourages mastery

of math skill sets, including percentages, proportions, data analysis, linear systems, and exponential functions.

### **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.

### **INTERMEDIATE ALGEBRA/GEOMETRY A & B**

This course includes equations and inequalities, ratios, proportional relations and percents, number properties (exponents/scientific notation), and analytic geometry (linear functions/graphing/slope). This course also includes geometry basics (angles/transversals/transformations), counting and probability, analyzing data representation and scatterplots, square roots and right triangles, two-dimensional geometry (perimeter/area/constructions), and three-dimensional geometry (solid figures/area/volume).

### **STATISTICS A & B**

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



# Science



## SCIENCE 6

Science 6 is a year-long middle school level course that builds on basic principles of scientific study. **Science 6** covers units on atoms, elements, and compounds, motion and forces, electricity and magnetism, weather and climate, the importance of cells, cellular energy and reproduction, genetics and heredity, and understanding organisms.

## SCIENCE 7

Science 7 is a year-long middle school level course that builds on basic principles of scientific study. **Science 7** covers units on atoms and the periodic table, states and properties of matter, chemical reactions, forms of energy, waves, sound, and light, the changing Earth, and organisms and the environment.

## SCIENCE 8

Science 8 is a year-long middle school level course that builds on basic principles of scientific study. **Science 8** covers units on Earth in the universe, history of the Earth, natural and artificial selection, plate tectonics, water on Earth, weather systems and climate change, and Earth's natural resources.

## PHYSICAL SCIENCE A & B

This course focuses on basic concepts in chemistry and physics and encourages exploration of new discoveries in the field of physical science. The course includes an overview of scientific principles and procedures and has students examine the chemical building blocks of our physical world and the compositions of matter. Additionally, students explore the properties that affect motion, forces, and energy on Earth. Building on these concepts, the course covers the properties of electricity and magnetism and the effects of these phenomena, work and energy, temperature and heat, waves and sounds, and light.

## BIOLOGY A & B

This course engages students in the study of life and living organisms and examines biology and biochemistry in the real world. This course encompasses traditional concepts in biology including biochemistry, cell biology, cell processes, heredity and reproduction, the evolution of life, taxonomy, human body systems, and ecology.

## CHEMISTRY A & B

This course engages students in the study of the composition, properties, changes, and interactions of matter. The course covers the basic concepts of chemistry including chemistry and its methods, the composition and properties of matter, changes and interactions of matter, factors affecting the interactions of matter, electrochemistry, organic chemistry, biochemistry, nuclear chemistry, mathematical applications, and applications of chemistry in the real world.

## PHYSICS A & B

This course acquaints students with topics in classical and modern physics. The course emphasizes conceptual understanding of basic physics principles, including Newtonian mechanics, energy, thermodynamics, waves, electricity, magnetism, and nuclear and modern physics. Throughout the course, students solve mathematical problems, reason abstractly, and learn to think critically about the physical world.

## ENVIRONMENTAL SCIENCE A & B

Environmental science offers lessons that cover many aspects of the field: ecology, the biosphere, land, forests and soil, water, energy and resources, and societies and policy. Students connect scientific theory and concepts to current, real-world dilemmas.

## **EARTH AND SPACE SCIENCE A & B**

Earth and Space Science is a course that builds on basic principles of scientific study, covering everything from basic structure of Earth to the expanding Universe. This course will cover star systems and galaxies, the sun, nuclear fission and fusion, the solar system, gravity and motion, and space technology. The course will also cover the history of the earth including fossils, geologic time, environment of earth, earth's interior and plate tectonics, rocks and minerals, weather, atmosphere, climate, and natural resources.

# Social Studies

## MS U.S. HISTORY

Offering an interactive and comprehensive overview of American history, this 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 of two semesters, interesting course content encourages students to think carefully about the challenges and opportunities facing the United States in the twenty-first century.

## MS CIVICS, GOVERNMENT, & ECONOMICS

Exploring the structure of the United States government on a national, state, and local level, this course challenges students to learn and understand fundamental concepts and philosophies that led to the creation of the United States Constitution. Students enrolled in this two-semester course analyze the political process, political parties, and influences that affect them both. Engaging, interactive content introduces economic concepts and encourages students to explore government and economics on a global scale. By instilling a thorough understanding of government and economics, this course inspires students to investigate what it means to be an American citizen.



## MS MODERN WORLD HISTORY

This course presents a cohesive and comprehensive overview of world history from the Middle Ages to the modern era. Students will draw upon and further develop historical inquiry skills as they examine the expansion of global economic, political, and social interactions and question the impact they had, and continue to have, on cultures and nations. Students study economies and the growth of more complex trade systems, the culture of and conflicts among peoples and places, the development of political institutions, and the rise and fall of governments. Students are exposed to diverse cultures and learn early economies and how trade relations affected culture and language.

## MS GEOGRAPHY

This year-long 7<sup>TH</sup> grade course includes an introduction to geography, physical geography (Physical features, and Physical systems), Human Geography (Culture, Government, Economics, and Religion) as well as the Human Impact on the Earth and Physical systems.

## MS 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; student 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, reading, short writings, projects, and discourse.

## **MS KANSAS HISTORY**

This semester-long course includes a Kansas Native American Tribe Research Project, lessons on Kansas and Nebraska Act, farmers on the frontier, the dust bowl, geography, Brown v. Board of Education, culture, economy, politics, and a Famous Kansas Presentation Project.

## **EARLY U.S. HISTORY A & B**

Early U.S. History is a course that explores the people, places, and events that shaped early United States history. This course stretches from the Era of Exploration through the Industrial Revolution. Students begin by exploring the colonization of the New World and examining the foundations of colonial society. Recurring themes such as territorial expansion, the rise of industrialization, and the significance of slavery will be examined in the context of how these issues contributed to the Civil War and Reconstruction.

## **U.S. HISTORY A & B**

U.S. History is a course that examines the major events and turning points of U.S. history from the Industrial Revolution through the modern age. The course leads students toward a clearer understanding of the patterns, processes, and people that have shaped U.S. history. Students will also examine the influence of social and political movements on societal change and the importance of modern cultural and political developments.

## **ECONOMICS**

This semester-long 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.

## **HUMAN GEOGRAPHY**

Examining current global issues that impact our world today, this semester-long course takes a thematic approach to understanding the development of human systems, human understanding of the world, and human social organization. This course will challenge students to develop geographic skills, including learning to interpret maps, analyze data, and compare theories. This course encourages students to analyze economic trends as well as compare global markets and urban environments.

## **MODERN WORLD HISTORY A & B**

This course examines the major events and turning points of world history from the Enlightenment to the present. Students investigate the foundational ideas that shaped the modern world in the Middle East, Africa, Europe, Asia, and the Americas, and then explore the economic, political, and social revolutions that have transformed human history. The course covers the influence of Greek and Roman governments, Enlightenment and Revolution, Nationalism and the growth of nation-states, Industrialization, Economic and Social Change, the New Imperialism, and World War I and its effect. It also covers Totalitarianism, World War II, the Post-war World, the Cold War, National Building in the Modern World, and Challenges of the Modern World.

## **WORLD GEOGRAPHY A & B**

This course provides students with an understanding of themes and skills in relation to physical features, climate, ecosystems, political and cultural climate, physical environments, economies, and modern issues for various areas in the world, including Europe, Latin America, the Middle East, North and Sub-Saharan Africa, Central and East Asia, South and Southeast Asia, Australia, Antarctica, and the Pacific World.

## **U.S. GOVERNMENT** (Semester long or year-long)

This course provides students with a practical understanding of the principles and procedures of government.

The **semester course** covers an introduction to government, the Constitution, Civil Rights and Liberties, government institutions, civics and participation, and public policy. The **year long course** contains an introduction to government, the Constitution in-depth, the Bill of Rights, and other important amendments. The course also contains an in-depth look at the government institutions (Congress, Presidency, Courts), Civics and Participation, politics, and public policy.

# General Electives

## INTRODUCTION TO ART (available for MS & HS)

Covering art appreciation and the beginning of art history, this course encourages students to gain an understanding and appreciation of art in their everyday lives. Presented in an engaging format, this one-semester course 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.

## ART HISTORY

Introducing art within historical, social, geographical, political, and religious contexts for understanding art and architecture through the ages, the students enrolled in this course cover topics including early medieval and Romanesque art; art in the twelfth, thirteenth, and fourteenth centuries; fifteenth-century art in Europe; sixteenth-century art in Italy; the master artists; High Renaissance and baroque art; world art, which includes the art of Asia, Africa, the Americas, and the Pacific cultures; eighteenth- and nineteenth-century art in Europe and the Americas; and modern art in Europe and the Americas.

## HEALTH (available for MS and HS)

This semester-long course examines and analyzes various health topics and focuses on creating a healthy lifestyle through personal health and wellness, personal health skills, safety and environmental health, mental and emotional health, family and social health, nutrition and physical activity, growth and development, tobacco, alcohol and drugs, diseases and disorder. Students also examine and analyze harassment and bullying laws. **The High School version covers issues of sex and gender identity, same-sex relationships, contraception, and other sensitive topics.**

## PHYSICAL EDUCATION A & B (available for MS & HS)

**Physical Education A** includes health and wellness basics, designing a personal fitness plan, safety and environmental health, lifetime fitness, skills for wellness, and skills for personal success. **Physical Education B** includes fitness and the body, movement in the body, muscular fitness, flexibility, cardiorespiratory fitness, sport selection, and being sports ready.

## MS ONLINE LEARNING & DIGITAL CITIZENSHIP

This 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. This course prepares students by providing practice in important study skills such as time management, effective notetaking, test preparation, and collaborating effectively online.

## PERSONAL PSYCHOLOGY 1 & 2 (EDynamic Learning)

Personal Psychology 1 explores the broad scope of psychology from biology's impact on our psychological makeup to society's impact on who we become. It will look at the changing field of psychology and explore clinical psychology and how people find treatment. Personal Psychology 2 explores what makes a person who they are and what things motivate them. It looks at determining IQ and delves into the depths of who someone is and how they got to be that way.

## SOCIOLOGY 1 & 2 (EDynamic Learning)

Sociology 1 covers units on what is sociology, our culture, socialization, social structure and group behavior, deviance and crime, social stratification and class, inequalities of race and ethnicity, and gender. Sociology 2 covers units on marriage and family, religion and education, the economy and politics, sport and entertainment, population and environment, cities and urban life, collective behavior and social movements, and social change.

## STRATEGIES FOR ACADEMIC SUCCESS (available for MS & HS)

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

## DIGITAL LITERACY

This **middle school level** semester-long course provides a foundation to 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.

**Required materials:** Must have access to Office or Office 365, including Access, Excel, Outlook, PowerPoint, and Word.

## KEYBOARDING AND APPLICATIONS

This **middle school level** semester-long course teaches students keyboarding skills, technical skills, effective communication skills, and productive work habits. Students gain an understanding of computer hardware, operating systems, file management, and the internet. In addition, students apply their keyboarding skills and create a variety of business documents, including word processing documents and electronic presentations.

**Required materials:** Must have access to word processing software (e.g. MS Word) and presentation software (e.g. MS PowerPoint)

## FINANCIAL LITERACY

This one-semester course prepares students to navigate personal finance with confidence. Students will learn what it means to be financially responsible, engaging students in budgeting, planning, and being a smart consumer. Students learn about the relationship between education, employment, income, and net worth, and they plan for the cost of college. Students broaden their study to include banking, spending, investing, and other money management concepts before exploring credit and debt.

## INTRODUCTION TO COMPUTER SCIENCE A & B

This course is designed for High School students and introduces them to the foundational concepts of computer science and challenges them to explore how computing and technology can affect the world. Students have creative, hands-on learning opportunities to create computer programs, develop web pages, design mobile apps, and write algorithms.

## COMPUTER APPLICATIONS: OFFICE 2019 A & B

This course introduces students to the features and functionality of 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 Word, Excel, PowerPoint, and Outlook.

**Required materials:** Access to MS Office 2019 or Office 365; Presentation software (e.g. MS PowerPoint)

## MS JOURNALISM

This **middle school level** semester-long course topics include digital and online media, visual arts, print technology, and broadcasting and includes several projects.

# World Languages

(Spanish 1 and 2 also available for Middle School students)

## SPANISH I A & B

Students begin their 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 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.

## SPANISH II A & B

High school students continue their 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 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.



## SPANISH III A & B

In this expanding 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.



# Career and Technical Education



## MS CAREER EXPLORATIONS A, B & C

This course prepares 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. **Career Explorations A** addresses careers A-E, **Career Explorations B** addresses careers E - H and **Career Explorations C** addresses careers I-Z.

## CAREER PLANNING & DEVELOPMENT A & B

Introducing students to the working world, this course provides the knowledge and insight necessary to compete in today's challenging job market. This 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, create a self-assessment profile, a cover letter, and a resume that can be used in their educational or career portfolio. Students explore starting a new job, the rights of workers and traits of effective employees, and address the importance of professionalism and responsibility as careers change and evolve.

## 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.

## 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.

## ANIMAL SYSTEMS

Animal Systems is a semester-long high school course that provides students with a wealth of information on livestock management practices, animal husbandry, physiological systems, the latest scientific trends, veterinary practice, and innovations in food production. Changes in practices, regulations, and legislation for animal welfare continue as new research provides solutions to medical, ethical, and practical concerns. The course reviews current topics, such as advancements in technology and research, and defines areas of discussion while maintaining focus on best-management practices. A student might use the knowledge gained from the course to further an interest in becoming a chef, researcher, doctor, wildlife-management professional, or any number of applicable careers.

## 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.

## **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.

## **CAREERS IN ALLIED HEALTH**

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

## **CAREERS IN LOGISTICS PLANNING AND MANAGEMENT SERVICES**

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

## **CAREERS IN MARKETING RESEARCH**

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

## **COMPUTER SCIENCE PRINCIPLES A & B**

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 .

## **CONSTRUCTION CAREERS**

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

## **CORRECTIONS: POLICIES AND PROCEDURES**

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

## **ENGINEERING AND DESIGN**

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

## **ENGINEERING AND PRODUCT DEVELOPMENT**

This semester-long course provides an overview of the concepts of product engineering and development . Students analyze the life cycle of a product to prepare a product for distribution and for target markets . The course begins with building an understanding of the product life cycle, from the initial idea to drafting requirements to using 3-D modeling tools and other design tools . The final unit focuses on assembling the pieces within a project plan to achieve a product and evaluating the plans for a successful product launch . In addition, the course provides information about the different careers available to students interested in engineering, product development, and project management.

## **FAMILY AND COMMUNITY SERVICES**

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

## **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 that explores the history and evolution of food products, along with the processing methods that have arisen to feed an ever-growing world population . Students study specifics in a wide spectrum of food product topics, from early methods of preservation to technological advancements in packaging, regulations in labeling, and marketing trends . Students learn industry terminology in each area of the overall system, from “farm to fork” to vertical integration to smart packaging.

## **FOOD SAFETY AND SANITATION**

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

## **FORENSICS: USING SCIENCE TO SOLVE A MYSTERY**

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

## **FUNDAMENTALS OF COMPUTER SYSTEMS**

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

## **FUNDAMENTALS OF DIGITAL MEDIA**

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

## **FUNDAMENTALS OF PROGRAMMING/SOFTWARE DEVELOPMENT**

This semester long course provides students with an understanding of basic software development concepts and practices, issues affecting the software industry, careers within the software industry, and the skills necessary to perform well in these occupations. Students learn details about core concepts in programming using Java, writing and debugging code, proper syntax, flow of control, order of operations, comparison operators, and program logic tools and models.

## **HEALTH, SAFETY, AND ETHICS IN HEALTH ENVIRONMENT A & B**

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

## **HEALTH SCIENCE CONCEPTS IA, IB, IIA, IIB**

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

## **INTRODUCTION TO AGRICULTURE, FOOD, AND NATURAL RESOURCES**

This semester-length high school course introduces students to the basic scientific principles of agriculture and natural resources. Students recognize and research plant systems, animal systems, government policy, “green” technologies, agribusiness principles, and sustainability systems. In this course, students apply understanding of ecosystems and systems thinking to the management of natural resources to maximize the health and productivity of the environment, agriculture, and communities. Students also analyze community practice or policy development related to sustainability in agriculture, food, and natural resources. Finally, students apply adaptive ecosystem management to a common pool resource problem in a manner that addresses ecological, socioeconomic, and institutional contexts.

## **INTRODUCTION TO BUSINESS A & B**

In this two-semester introductory course, students learn the principles of business using real-world examples— learning what it takes to plan and launch a product or service in today’s fast-paced business environment. This course covers an introduction to economics, costs and profit, and different business types. Students are introduced to techniques for managing money, personally and as a business, and taxes and credit; the basics of financing a business; how a business relates to society both locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.

## **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/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 CAREERS IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS**

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

## **INTRODUCTION TO CONSUMER SERVICES**

In this semester-long course, students analyze various career paths in terms of employment opportunities and educational requirements, such as hard and soft skills, certifications, and licensures for different pathways. Developing research, analytical, and presentations skills are key components. This course is designed as an overview to prepare students for a consumer services related career and to introduce them to specialty areas. Emphasis is placed on the human services aspect (vs. corporate concerns) of consumer services. Social issues and advocacy, as well as ethics and legalities, are a recurring theme. Students gain knowledge of current issues affecting various consumer services professions, and the impact of local, state, national and global issues on consumer services.

## **INTRODUCTION TO HEALTH SCIENCE A & B**

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

## **INTRODUCTION TO HUMAN GROWTH AND DEVELOPMENT**

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

## **INTRODUCTION TO HUMAN SERVICES**

This semester-long course introduces high school students to the possibilities for careers in the human services professions. Through anecdotes, lessons, and a variety of assignments and projects, students learn about the broad variety of jobs available in the human services. These begin with entry-level positions, such as associate social workers, that require a two-year Associate of Arts degree. Students also learn ethics and philosophies of the helping professions. The history of the profession, as well as the impact of the cultural, social, and economic environment on individual people, especially those who need social services assistance, is also explored.

## **INTRODUCTION TO INFORMATION TECHNOLOGY SUPPORT AND SERVICES**

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

## **INTRODUCTION TO LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY**

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

## **INTRODUCTION TO NETWORK SYSTEMS**

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

## **INTRODUCTION TO STEM**

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

## **LAW ENFORCEMENT FIELD SERVICES**

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

## **LEGAL SERVICES**

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

## **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 A & B**

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

## **NETWORK SYSTEM DESIGN**

Network System Design is a semester-long course that provides students with an understanding of computer networks and how they operate, as well as a basic understanding of how to manage and maintain computer networks. These skills provide students with the ability to design, configure, and troubleshoot networks of all sizes. Students learn the basics of network design, including how to identify network requirements and determine proper network architecture. Students are introduced to network models. Students also learn about internet protocol and the basics of routing data on a network. Students learn about network security issues and network management. Lastly, students learn about network operating systems and their role in connecting computers and facilitating communications.

## **NEW APPLICATIONS: WEB DEVELOPMENT IN THE 21ST CENTURY**

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

## **NURSING ASSISTANT 1 A & B**

This two-semester course prepares students to provide and assist with all aspects of activities of daily living and medical care for the adult patient in hospital, long-term care, and home settings. Through direct instruction, interactive skills demonstrations, and practice assignments, students are taught the basics of nurse assisting, including interpersonal skills, medical terminology and procedures, legal and ethical responsibilities, safe and efficient work, gerontology, nutrition, emergency skills, and employability skills.



## **NURSING: UNLIMITED POSSIBILITIES AND UNLIMITED POTENTIAL**

This course provides high school students opportunities to compare and contrast the various academic and clinical training pathways to an entry-level position in nursing and to explore the growing number of opportunities for professional advancement given the proper preparation and experience. In this semester-long course, students have several opportunities to learn about the expanding scope of professional practice for registered nurses and better understand the important changes proposed in the education and ongoing professional development of nurses.

## **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.

## **PHARMACY TECHNICIAN IA, IB, IIA, IIB**

This four-semester course prepares students for employment as a Certified Pharmacy Technician (CPhT) and covers the skills needed for the pharmacy technician field. Through direct instruction, interactive skills demonstrations, and practice assignments, students learn the basics of pharmacy assisting, including various pharmacy calculations and measurements, pharmacy law, pharmacology, medical terminology and abbreviations, medicinal drugs, sterile techniques, USP 795 and 797 standards, maintenance of inventory, patient record systems, data processing automation in the pharmacy, and employability skills. Successful completion of this course prepares the student for national certification for employment as a CPhT.

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

Physicians, Pharmacists, Dentists, Veterinarians, and Other Doctors focuses 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**

This course 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.

## **PUBLIC HEALTH: DISCOVERING THE BIG PICTURE IN HEALTH CARE**

This course is a semester-long high school course that discusses the multiple definitions of public health and the ways these definitions are put into practice. The five core disciplines and ways they interact to reduce disease, injury and death in populations is explored. By understanding the roles of public health, students gain a greater appreciation for its importance and the various occupations one could pursue within the field of public health. Students explore the history, nature and context of the public health system. Students also learn how to promote public health, and how to coordinate a response to a public health emergency. Students explore how diseases spread and learn about the roles of the Centers for Disease Control and the World Health Organization. By entering the field of public health, students play an integral part in improving the health and lives of many people.

## **SCIENCE AND MATHEMATICS IN THE REAL WORLD**

This course 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**

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

## **SCIENTIFIC RESEARCH**

Scientific Research is a semester-long high school course that describes activities from the point of view of a professional scientist. The lessons provide support, accessible ideas, and specific language that guide students through most of the steps, insights, and experiences eventually faced if continued through higher education toward a graduate degree. Knowing the practical, everyday basics of scientific thinking and laboratory activity serves as a necessary first step to a career as a technician or a lab assistant. While these jobs are hands-on and technical, the intellectual and historical background covered in the course provides an awareness that is essential to working in such an atmosphere.

## **SECURITY AND PROTECTIVE SERVICES**

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

## **SMALL BUSINESS ENTREPRENEURSHIP A & B**

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.

## **SOFTWARE DEVELOPMENT TOOLS**

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

## **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.

## **SUSTAINABLE SERVICE MANAGEMENT FOR HOSPITALITY AND TOURISM**

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

## **TEACHING AND TRAINING CAREERS**

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

## **TECHNOLOGY AND BUSINESS A & B**

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.

## **THERAPEUTICS: THE ART OF RESTORING AND MAINTAINING WELLNESS**

This course is a semester-long high school course that focuses on careers that help restore and maintain mobility and physical and mental health, such as physical therapists, physical therapy assistants, occupational therapists, athletic trainers, massage therapists, dieticians and dietetic technicians, art therapists, neurotherapists, vocational rehabilitation counselors, and registered dental hygienists. Each career is explored in depth, examining typical job duties, educational and licensure requirements, working conditions, average salary, and job outlook. Key concepts and specific skill sets are introduced in the lessons, allowing students to apply what they have learned to health careers. This course is important because skilled health care workers are in high demand and expected to remain so for the foreseeable future.

## **TRANSPORTATION AND TOURS FOR THE TRAVELER**

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



# eDynamic Learning Electives (many courses have required materials)



## High School Level

### AMERICAN SIGN LANGUAGE 1A & 1B

The beginning of this full-year course will introduce you to vocabulary and simple sentences, so that you can start communicating right away. Importantly, you will explore Deaf culture: social beliefs, traditions, history, values and communities influenced by deafness. The second semester will introduce you to more of this language and its grammatical structures.

### COSMETOLOGY 1: CUTTING EDGE STYLES

Interested in a career in cosmetology? This course provides an introduction to the basics of cosmetology. Students will explore career options in the field of cosmetology, learn about the common equipment and technologies used by cosmetologists, and examine the skills and characteristics that make someone a good cosmetologist. Students will also learn more about some of the common techniques used in caring for hair, nails, and skin in salons, spas, and other cosmetology related businesses.

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

### FORENSICS SCIENCE 1: SECRETS OF THE DEAD

Fingerprints. Blood spatter. DNA analysis. 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. Students will explore techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, they'll follow evidence trails until the CSI goes to trial in the criminal justice system, examining how various elements of the crime scene are analyzed and processed.

### HISTORY OF THE HOLOCAUST

Holocaust education requires a comprehensive study of not only times, dates, and places, but also the motivation and ideology that allowed these events. In this course, students will study the history of anti-Semitism; the rise of the Nazi party; and the Holocaust, from its beginnings through liberation and the aftermath of the tragedy. The study of the Holocaust is a 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.

### 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.

### **MUSIC APPRECIATION: THE ENJOYMENT OF LISTENING**

Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This 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 has been used as a way to make sense of humankind and our world. Beginning with an overview of mythology and different kinds of folklore, 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.

## Greenbush Virtual Academy Course Listings 2024-25 High School/Middle School

### High School Level

Language Arts 9 A & B  
Language Arts 10 A & B  
Language Arts 11 A & B  
Language Arts 12 A & B  
Language Arts 12 A & B Honors  
Literacy & Comprehension II A & B (Grade 9)  
ELA Foundations (Grade 9)  
Intro to Communications/Speech  
Writing Skills A & B (Grade 10)  
Expository Reading/Writing A & B (Grade 12)  
Journalism & Mass Communication (Grade 9)  
Business English A & B

Algebra I A & B  
Algebra II A & B  
Honors Algebra II A & B  
Geometry A & B  
Pre-Algebra A & B  
Precalculus A & B  
Statistics A & B  
Trigonometry (1 semester)  
Math Models with Applications A & B  
Intermediate Algebra/Geometry A & B  
Financial Math A & B

Biology A & B  
Chemistry A & B  
Earth & Space Science A & B  
Environmental Science A & B  
Physical Science A & B  
Physics A & B

Early U.S. History A & B  
Economics (1 semester)  
Human Geography (1 semester)

Modern World History A & B  
U.S. Government (1 semester)  
U.S. Government A & B  
U.S. History A & B World  
Geography A & B

### General Electives Art

History  
Computer Applications – Office A & B  
Financial Literacy  
Health  
Introduction to Art  
Introduction to Computer Science A & B  
Physical Education A & B  
Personal Psychology 1 & 2  
Sociology 1 & 2  
Strategies for Academic Success  
American Sign Language 1a – EDL  
American Sign Language 1b – EDL  
History of the Holocaust – EDL  
Music Appreciation – EDL  
Mythology and Folklore – EDL

### World Languages

Spanish IA & IB  
Spanish IIA & IIB  
Spanish IIIA & IIIB

### Career Readiness

Career Planning/Development A  
Career Planning/Development B  
Career Management

## **CAREER CLUSTERS**

### **Agriculture, Food & Natural Resources**

Agribusiness Systems  
Animal Systems  
Food Products and Processing Systems  
Intro to Agriculture, Food, & Natural Resources

### **Architecture & Construction**

Construction Careers  
Intro to Careers in Architecture & Construction

### **Arts, A/V Technology & Communications**

Fundamentals of Digital Media

### **Business Management & Administration**

Business Law  
Introduction to Business A & B  
Small Business Entrepreneurship A & B  
Technology and Business A & B

### **Education & Training**

Introduction to Careers in Education & Training  
Introduction to Human Growth & Development  
Teaching and Training Careers

### **Finance**

Banking Services Careers  
Introduction to Careers in Finance

### **Government & Public Administration**

Introduction to Careers in Government and  
Public Administration

### **Health and Bio Sciences**

Careers in Allied Health  
Health, Safety & Ethics in the Health  
Environment A & B  
Health Science Concepts IA & IB  
Health Science Concepts IIA & IIB  
Introduction to Careers in the Health Sciences  
Introduction to Health Science A & B  
Medical Terminology A & B  
Nursing: Unlimited Possibilities  
Nursing Assistant 1 A & 1B  
Pharmacy Technician 1A & 1B  
Pharmacy Technician 2A & 2B  
Physicians, Pharmacists, Dentists, Veterinarians,  
& Other Doctors  
Public Health: Discovering the Big Picture  
Therapeutics: Art of Restoring/Maintaining  
Wellness

### **Hospitality & Tourism**

Food Safety and Sanitation  
Marketing and Sales for Tourism/Hospitality  
Planning Meetings and Special Events  
Sustainable Service Management for Hospitality  
& Tourism  
Transportation/Tours for the Traveler

### **Human Services**

Family and Community Services  
Introduction to Consumer Services  
Introduction to Human Services  
Personal Care Services  
Cosmetology 1 - EDL  
Interior Design – EDL



### **Information Technology**

Computer Science Principles A & B  
Fundamentals of Computer Systems  
Fundamentals of Programming and Software  
Development  
Introduction to Information Technology Support  
& Services  
Introduction to Network Systems  
Network System Design  
New Applications: Web Development in 21<sup>st</sup> Century  
Software Development Tools

### **Law, Public Safety, Corrections & Securities**

Corrections: Policies and Procedures  
Forensics Science 1  
Introduction to Law, Public Safety, Corrections,  
& Security  
Law Enforcement Field Services  
Legal Services  
Security and Protective Services  
Criminology – EDL  
Forensics: Using Science to Solve Mystery - EDL

### **Marketing**

Careers in Marketing Research

### **Science, Technology, Engineering, Mathematics**

Engineering and Design  
Engineering and Product Development  
Introduction to STEM  
Science and Mathematics in the Real World  
Scientific Discovery and Development  
Scientific Research  
STEM and Problem Solving

### **Transportation, Distribution & Logistics**

Careers in Logistics Planning & Management Services  
Introduction to Careers in Transportation, Distribution,  
and Logistics

## **Middle School Level**

Language Arts 6 A & B  
Language Arts 7 A & B  
Language Arts 8 A & B

Math 6 A & B  
Math 7 A & B  
Math 8 A & B  
Algebra 1 A & B (Grade 8)  
MS Pre-Algebra A & B

Science 6 A & B  
Science 7 A & B  
Science 8 A & B

MS Civics/Govt/Economics B  
MS Geography A & B  
MS Kansas History (1 semester)  
MS US History A & B  
MS Modern World History A & B  
Civics and Citizenship (1 semester)

## **Electives**

MS Health  
Digital Literacy  
Keyboarding and Applications  
Online Learning and Digital Citizenship  
MS Spanish 1 A & B  
MS Spanish 2 A & B  
MS Strategies for Academic Success  
MS Introduction to Art  
MS Physical Education A & B  
MS Journalism  
MS Career Explorations A, B, & C