

# IGNITE

Course Handbook

Shenandoah Community Schools  
2022-2023

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# IGNITE K-5th GRADE COURSES OFFERINGS

## K- 5th Grade

<u>LANGUAGE ARTS</u>	Year Long Course
<u>MATH</u>	Year Long Course
<u>SCIENCE</u>	Year Long Course
<u>SOCIAL STUDIES</u>	Year Long Course

# IGNITE 6th-8th GRADE COURSES OFFERINGS

## 6th GRADE

<u>LANGUAGE ARTS 6</u>	Year Long Course
<u>MATH 6</u>	Year Long Course
<u>SCIENCE 6</u>	Year Long Course
<u>SOCIAL STUDIES 6</u>	Year Long Course

## 7th GRADE

<u>LANGUAGE ARTS 7</u>	Year Long Course
<u>MATH 7</u>	Year Long Course
<u>SCIENCE 7</u>	Year Long Course
<u>SOCIAL STUDIES 7</u>	Year Long Course

## 8th GRADE

<u>LANGUAGE ARTS 8</u>	Year Long Course
<u>MATH 8</u>	Year Long Course
<u>SCIENCE 8</u>	Year Long Course
<u>SOCIAL STUDIES 8</u>	Year Long Course

Advanced and elective courses are available for students whose personal learning plans reflect a need for such courses.

## 6th-8th ELECTIVES

### HEALTH QUEST

Semester Long

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

### SPANISH 1

Year Long

Middle school students begin 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 an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

### SPANISH 2

Year Long

Students in middle school 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 an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

# IGNITE GRADUATION REQUIREMENTS

50 credits are required to graduate from Shenandoah IGNITE. Listed below are required courses that count toward the 50 credits, all remaining credits are considered electives.

Subject Area	Credits	Courses Required
Language Arts	8 credits	
Math	7 credits	
Science	7 credits	
Social Studies	6 credits	US History Government
Physical Education	4 credits	Can be waived
Personal & Career Readiness	1 credit	Senior Year
Financial Literacy	1 credit	Senior Year
Online Learning & Digital Citizenship	1 credit	All online learners are required to take their 1st semester of online learning.
Electives	11 credits	
Work/Career	4 credits	
Community Service		20 Hours of approved community service.

## IGNITE GRADING SCALE

GPA Scale	Letter Grade	Percentage Range
4.0	A	93-100
3.7	A-	90-92
3.3	B+	87-89
3.0	B	83-86
2.7	B-	80-82
2.3	C+	77-79
2.0	C	73-76
1.7	C-	70-72
1.3	D+	67-69
1	D	63-66
.7	D-	60-62
0	F	0-59
P	Passing	
WF	Withdraw Fail	
NC	No Credit	

# IGNITE 9th - 12th GRADE COURSE OFFERINGS

## LANGUAGE ARTS

ENGLISH LANGUAGE ARTS 9 (1 year = 2 credits) GRADE 9 REQUIREMENT

This freshman-year English course invites students to explore diverse texts organized into thematic units. Students will engage in literary analysis and inferential evaluation of great texts both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, students will master comprehension and literary-analysis strategies. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their oral language skills and produce clear, coherent writing. Students will read a range of classic texts including Homer's *The Odyssey*, Shakespeare's *Romeo and Juliet*, and Richard Connell's "The Most Dangerous Game." They will also study short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan. Contemporary texts by Richard Preston, Julia Alvarez, and Maya Angelou round out the course.

ENGLISH LANGUAGE ARTS 10 (1 year = 2 credits) GRADE 10 REQUIREMENT  
PREREQUISITE: English Language Arts 9

This sophomore-year English course invites students to explore a diverse selection of world literature organized into thematic units. While critically reading fiction, poetry, drama, and expository nonfiction, students learn essential reading comprehension strategies and engage in literary analysis and evaluation of both classic and contemporary works. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their listening and speaking skills and produce clear, coherent writing. Throughout the course, students read a range of classic and contemporary literary texts including Henrik Ibsen's *A Doll's House*, George Orwell's *Animal Farm*, and Marjane Satrapi's *Persepolis*. In addition to reading a wide range of literary texts, students read and analyze complex informational and argumentative texts including Sonia Sotomayor's "A Latina Judge's Voice," Niccolò Machiavelli's *The Prince*, and the contemporary informational text *Sugar Changed the World: A Story of Magic, Spice, Slavery, Freedom, and Science*.

ENGLISH LANGUAGE ARTS 11 (1 year = 2 credits) GRADE 11 REQUIREMENT  
PREREQUISITE: English Language Arts 10

This junior-year English course invites students to delve into American literature, from early American Indian voices through thoughtful contemporary works. Students will engage in literary analysis and inferential evaluation of great texts, the centerpieces of this course. While critically reading fiction, poetry, drama, and expository nonfiction, students will 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 will read a range of short but complex texts, including works by Ralph Waldo Emerson, Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers.

ENGLISH LANGUAGE ARTS 12 (1 year = 2 credits) GRADE 12 ELECTIVE  
PREREQUISITE: English Language Arts 11

This senior-year English Language Arts course invites you to explore a diverse collection of texts organized into thematic units. You will engage in literary analysis and inferential evaluation of both classic and contemporary literature. While critically reading fiction, poetry, drama, and expository nonfiction, you will learn comprehension and literary-analysis strategies. Tasks will encourage you to strengthen your oral language skills and produce creative, coherent writing. You will read a range of classic texts including the ancient epic Gilgamesh, William Shakespeare's Hamlet, and Oscar Wilde's The Importance of Being Earnest. You will study short but complex texts, including essays by Jonathan Swift and Mary Wollstonecraft, and influential speeches by Queen Elizabeth I and Franklin D. Roosevelt. Contemporary texts by Seamus Heaney, Derek Walcott, and Chinua Achebe round out the course.

ADVANCED LANGUAGE ARTS (1 year = 2 credits) GRADES 11-12 ELECTIVE

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

EXPOSITORY READING & WRITING (1 year = 2 credits) GRADES 9-12 ELECTIVE

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. Students will read a range of short but complex texts, including works by Walt

Whitman, Cesar Chavez, Abraham Lincoln, Martin Luther King Jr., Amy Tan, Langston Hughes, Ayn Rand, Naomi Shihab Nye, Maya Angelou, and Gary Soto.

INTRO TO COMMUNICATION & SPEECH (1 year = 2 credits) GRADES 9-12 ELECTIVE

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 full-year 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.

## MATHEMATICS

MATHEMATICS I (1 year = 2 credits) GRADE 9-12 ELECTIVE

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

MATHEMATICS II (1 year = 2 credits) GRADE 9-12 ELECTIVE  
PREREQUISITE: Mathematics I

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

MATHEMATICS III (1 year = 2 credits) GRADE 9-12 ELECTIVE  
PREREQUISITE: Mathematics II

This course synthesizes previous mathematical learning in four focused areas of instruction. First, students relate visual displays and summary statistics to various types of data and to probability distributions with a focus on drawing conclusions from the data. Then, students

embark on an in-depth study of polynomial, rational, and radical functions, drawing on concepts of integers and number properties to understand polynomial operations and the combination of functions through operations. This section of instruction builds to the fundamental theorem of algebra. Students then expand the study of right-triangle trigonometry they began in Mathematics II to include non-right triangles and develop the laws of sines and cosines. Finally, students model an array of real world situations with all the types of functions they have studied, including work with logarithms to solve exponential equations. As they synthesize and generalize what they have learned about a variety of function families, students appreciate the usefulness and relevance of mathematics in the real world.

### MATHEMATICAL MODELS WITH APPLICATIONS

(1 year = 2 credits)      GRADE 9-12 ELECTIVE

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

### FINANCIAL MATH

(1 year = 2 credits)

GRADE 9-12 ELECTIVE

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

### PRE-ALGEBRA

(1 year = 2 credits)

GRADE 9-12 ELECTIVE

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

## ALGEBRA I

(1 year = 2 credits)

GRADE 9-12 ELECTIVE

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

## GEOMETRY

(1 year = 2 credits)

GRADE 9-12 ELECTIVE

PREREQUISITE: Algebra I

Based on plane Euclidean geometry, this rigorous full-year course addresses the critical areas of: congruence, proof, and constructions; similarity and trigonometry; circles; three-dimensional figures; and probability of compound events. Transformations and deductive reasoning are common threads throughout the course. Students build on their conceptual understanding of rigid transformations established in middle school as they formally define each and then use them to prove theorems about lines, angles, and triangle congruence. Rigid transformations are also used to establish relationships between two-dimensional and three-dimensional figures. Students use their knowledge of proportional reasoning and dilations to develop a formal definition for similarity of figures. They apply their understanding of similarity to defining trigonometric ratios and radian measures. Students also make algebraic connections as they use coordinate algebra to verify properties of figures in the coordinate plane and write equations of parabolas and circles. Throughout the course, students investigate properties of figures, make conjectures, and prove theorems. Students demonstrate their reasoning by completing proofs in a variety of formats. The standards of mathematical practice are embedded throughout the course as students apply geometric concepts in modeling situations, make sense of problem situations, solve novel problems, reason abstractly, and think critically.

## ALGEBRA II

(1 year = 2 credits)

GRADE 9-12 ELECTIVE

PREREQUISITE: Algebra I & Geometry

This course focuses on functions, polynomials, periodic phenomena, and collecting and analyzing data. Students begin with a review of linear and quadratic functions, to solidify a foundation for learning these new functions. 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. Process standards are embedded throughout the course, as students solve novel problems, reason abstractly, and think critically.

FINANCIAL LITERACY (1 semester = 1 credit) GRADE 12 REQUIREMENT

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

PRE-CALCULUS (1 year = 2 credits) GRADES 11-12 ELECTIVE  
PREREQUISITE: Algebra II

Designed to follow Algebra II, this rigorous full-year course builds upon students' understanding of various aspects of functions: graphing, composition, inverses, modeling, systems, and inequalities. Students expand their knowledge of trigonometric functions to include graphs of reciprocal functions, and they apply trigonometry to a variety of real-world problems. Students prove trigonometric identities and use them to solve equations. Throughout the course students make connections between geometry and algebra as they: use graphs to solve polynomial, rational, exponential, and logarithmic inequalities; perform operations with complex numbers and vectors; use coordinate algebra to derive equations of ellipses and hyperbolas; and find limits of functions. The standards of mathematical practice are embedded throughout the course as students apply mathematical concepts in modeling situations, make sense of problem situations, solve novel problems, reason abstractly, and think critically.

STATISTICS (1 semester = 1 credits) GRADES 11-12 ELECTIVE  
PREREQUISITE: Algebra II

This rigorous full-year course engages students in the study of statistics. The course covers statistical concepts and includes interactive activities and projects that encourage higher-order thinking skills. Major topics of study include exploring one- and two-variable data, sampling, experimentation, probability, sampling distributions, and statistical inference. These topics are organized into three big ideas: variation and distribution, patterns and uncertainty, and data-based predictions, decisions, and conclusions.

PROBABILITY & STATISTICS (1 semester = 1 credits) GRADES 11-12 ELECTIVE  
PREREQUISITE: Algebra II

This high-school course provides an alternative math credit for students who may not wish to pursue more advanced mathematics courses such as Algebra II and Pre-Calculus. It begins with an in-depth study of probability, with a focus on conceptual understanding. Students then

move into an exploration of sampling and comparing populations. The first semester closes with units on data distributions and data analysis—including how to summarize data sets with a variety of statistics. In the second half of the course, students create and analyze scatterplots and begin a basic study of regression. Then they study two-way tables and normal distributions, learning about powerful applications such as hypothesis testing. Finally, students return to probability at a more advanced level, focusing on topics such as conditional probability, combinations and permutations, and sets.

TRIGONOMETRY (1 semester = 1 credit) GRADES 11- 12 ELECTIVE  
PREREQUISITE: Algebra II

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. Next, students explore trigonometric identities and applications. Students then work with complex numbers and the polar coordinate system. The course ends with an introduction to vectors and conic sections.

## SCIENCE

PHYSICAL SCIENCE (1 year = 2 credits) GRADE 9 REQUIREMENT

This full-year course focuses on traditional concepts in chemistry and physics, and encourages exploration of new discoveries in this field of science. The course includes an overview of scientific principles and procedures, and leads students toward a clearer understanding of matter, energy, and the physical universe. As students refine and expand their understanding of physical science, they will apply their knowledge in experiments that require them to ask questions and create hypotheses. Throughout the course, students solve problems, reason abstractly, and learn to think critically.

BIOLOGY (1 year = 2 credit) GRADES 10 REQUIREMENT

This year-long high school course engages students in the study of life and living organisms and examines biology and biochemistry in the real world. The course encompasses traditional concepts in biology and encourages exploration of new discoveries in the field. The components include biochemistry, cell biology, cell processes, heredity and reproduction, the evolution of life, taxonomy, human body systems, and ecology. This course is aligned with the Next Generation Science Standards, which were developed by states to improve science education for all students. The goals of these standards are to develop a thorough understanding of content as well as improve key skills like communication, collaboration, inquiry, problem solving, and creative thinking.

## CHEMISTRY

(1 year = 2 credits)

GRADE 9-12 ELECTIVE

This rigorous full-year course engages students in the study of the composition, properties, changes, and interactions of matter. The course covers the basic concepts of chemistry and includes virtual laboratory experiments that encourage higher-order thinking applications. There is also a wet lab component for each of these labs. The components of this course include the composition and properties of matter, changes and interactions of matter, organic chemistry, and nuclear chemistry. Throughout the course, students solve problems, reason abstractly, and learn to think critically.

## LIFE SCIENCE

(1 year = 2 credits)

GRADE 9-12 ELECTIVE

Examining a broad spectrum of the biological sciences, Life Science is a full-year course for middle school students that builds on basic principles of scientific inquiry and translates those skills to more complex, overarching biological themes. The course includes units that help students understand the definitions, forms, and classifications of living organisms and learn to analyze the diversity of each unique group of living organisms. Other units introduce students to the structures and functions of cells, cell theory, and cell reproduction. These larger themes are then applied to other topics, such as genetics, Darwinian theory, and human biology and health. An introduction of ecology draws all of these concepts together to examine the interrelationships that help to maintain life on Earth.

## EARTH SCIENCE

(1 year = 2 credits)

GRADE 9-12 ELECTIVE

This full-year course introduces students to the study of Earth and its place in the universe. The course leads students toward a clearer understanding of geology, oceanography, meteorology, and astronomy. As students refine and expand their understanding of Earth science, they will apply their knowledge in investigations that require them to ask questions and explore the world around them. Throughout the course, students will also solve problems, reason abstractly, and learn to think critically.

## ENVIRONMENTAL SCIENCE

(1 year = 2 credits)

GRADES 11-12 ELECTIVE

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

## PHYSICS

(1 year = 2 credits)

GRADES 11-12 ELECTIVE

PREREQUISITE: Algebra I

This full-year course focuses on traditional concepts in physics, and encourages exploration of new discoveries in this field of science. The course includes an overview of scientific principles and procedures, and leads students toward a clearer understanding of motion, energy, electricity, magnetism, and the laws that govern the physical universe. As students refine and expand their understanding of physics, they will apply their knowledge in experiments that require them to ask questions and create hypotheses. Throughout the course, students solve problems, reason abstractly, and learn to think critically.

## SCIENCE & MATH IN THE REAL WORLD Could be Math or Science Credit

(1 semester = 1 credits)

GRADES 9-12 ELECTIVE

Science and Mathematics in the Real World is a semester-long high school course where students focus on how to apply scientific and mathematical concepts to the development of plans, processes, and projects that address real world problems, including sustainability Edgenuity Course Catalog PAGE 32 Career and Technical Education Courses 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.

## FORENSIC: THE SCIENCE OF CRIME (1 semester = 1 credit) GRADES 9-12 ELECTIVE

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.

## **SOCIAL SCIENCES**

### **U.S. HISTORY I**

(1 year = 2 credits)

GRADE 9 REQUIREMENT

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

### **U.S. HISTORY II**

(1 year = 2 credits)

GRADES 10-12 ELECTIVE

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

### **WORLD HISTORY**

(1 year = 2 credits)

GRADE 10 REQUIREMENT

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

MODERN WORLD HISTORY

(1 year = 2 credits)

GRADE 10-12 ELECTIVE

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

U.S. GOVERNMENT

(1 semester = 1 credit)

GRADE 12 REQUIREMENT

This semester-long course provides students with a practical understanding of the principles and procedures of government. The course begins by establishing the origins and founding principles of American government. After a rigorous review of the Constitution and its Amendments, students investigate the development and extension of civil rights and liberties. Lessons also introduce influential Supreme Court decisions to demonstrate the impact and importance of constitutional rights. The course builds on this foundation by guiding students through the function of government today and the role of citizens in the civic process and culminates in an examination of public policy and the roles of citizens and organizations in promoting policy approaches. Throughout the course, students examine primary and secondary sources, including political cartoons, essays, and judicial opinions. Students also sharpen their writing skills in shorter tasks and assignments, and practice outlining and drafting skills by writing full informative and argumentative essays.

PSYCHOLOGY

(1 year = 2 credits)

GRADES 11-12 ELECTIVE

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

## SOCIOLOGY

(1 semester = 1 credit)

GRADES 11-12 ELECTIVE

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

## ECONOMICS

(1 semester = 1 credit)

GRADES 11-12 ELECTIVE

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

## GEOGRAPHY

(1 semester = 1 credit)

GRADES 9-12 ELECTIVE

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

## CIVICS & CITIZENSHIP

(1 semester = 1 credit)

GRADES 9-12 ELECTIVE

Civics and Citizenship is a one-semester elective appropriate for students in middle school and early high school. The course investigates events, concepts, and issues with a 360-degree view allowing multiple perspectives from various cultures and institutions to inform student learning. The course is divided into five units in which students will explore their civic roles, rights, and responsibilities; analyze the development of democracy in the United States; study the purposes

and principles of the Constitution; investigate the role of power in decision-making; and discover ways to influence the government. The course provides opportunities to actively engage with the content through interactives, assignments, readings, short writings, projects, and discourse.

## **AGRICULTURAL SCIENCE**

**AGRIBUSINESS SYSTEMS** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

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.

**CAREER EXPLORATIONS** (1 year = 2 credits) GRADES 9-10 ELECTIVE

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

**FOOD PRODUCTS & PROCESSING** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

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.

**INTRO TO AG. FOOD, & NATRL RESRCS** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

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.

PLANT SYSTEMS (1 semester = 1 credit) GRADES 9-12 ELECTIVE

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

ANIMAL SYSTEMS (1 semester = 1 credit) GRADES 9-12 ELECTIVE

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.

POWER, STRUCTURE, & TECH SYSTEMS (1 semester = 1 credit) GRADES 9-12 ELECTIVE

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

## **BUSINESS & TECHNOLOGY**

ONLINE LEARNING & DIGITAL CITIZENSHIP (1 semester = 1 credits) REQUIRED

This one-semester course provides students with a comprehensive introduction to online learning, including how to work independently, stay safe, and develop effective study habits in virtual learning environments. Featuring direct-instruction videos, interactive tasks, authentic

projects, and rigorous assessments, the course prepares students for high school by providing in-depth instruction and practice in important study skills such as time management, effective note-taking, test preparation, and collaborating effectively online. By the end of the course, students will understand what it takes to be successful online learners and responsible digital citizens.

**INTRODUCTION TO BUSINESS** (1 year = 2 credits) GRADES 9-12 ELECTIVE

In this two-semester introductory course, students will 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.

**SMALL BUSINESS ENTREPRENEURSHIP** (1 year = 2 credits) GRADES 9-12 ELECTIVE

This full-year course, provided in two semesters, 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.

**BUSINESS LAW** (1 semester = 1 credits) GRADES 9-12 ELECTIVE

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.

**BANKING SERVICES CAREERS** (1 semester = 1 credits) GRADES 9-12 ELECTIVE

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.

### PLANNING MEETINGS & SPECIAL EVENTS

(1 semester = 1 credits) GRADES 9-12 ELECTIVE

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

### INTRODUCTION TO COMPUTER SCIENCE (1 year = 2 credits) GRADES 9-12 ELECTIVE

This full-year course is designed for students in grades 9–10, although any students across grades 9–12 may enroll. This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can affect the world. Students have creative, hands-on learning opportunities to create computer programs, develop web pages, design mobile apps, write algorithms, and collaborate with peers while building strong foundational knowledge. This course provides a solid foundation for more advanced study as well as practical skills that students can use immediately.

### BUSINESS COMPUTER INFO SYSTEMS (1 year = 2 credits) GRADES 9-12 ELECTIVE

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

### FUNDAMENTALS OF COMPUTER SYSTEMS

(1 semester = 1 credits) GRADES 9-12 ELECTIVE

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 systems. 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 the Windows operating system. Lastly, students learn the basics of customer service and working as a help desk support technician.

### FUNDAMENTALS OF PROGRAMMING & SOFTWARE DEVELOPMENT

(1 semester = 1 credits) GRADES 9-12 ELECTIVE

This semester-long course provides students with an understanding of basic software development concepts and practices, issues affecting the software industry, careers within the software industry, and the skills necessary to perform well in these occupations. Students learn details about core concepts in programming using Java, writing and debugging code, proper syntax, flow of control, order of operations, comparison operators, and program logic tools and models. Students learn the function of key program techniques including if statements, looping, and arrays, as well as web development using HTML and drag-and-drop development of user interfaces in an integrated development environment. Students explore the software development life cycle and different variations used to create software.

### INTRODUCTION TO INFORMATION TECHNOLOGY SUPPORT & SERVICES

(1 semester = 1 credits) GRADES 9-12 ELECTIVE

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 NETWORK SYSTEMS

(1 semester = 1 credits) GRADES 9-12 ELECTIVE

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.

NETWORK SYSTEM DESIGN (1 semester = 1 credits) GRADES 9-12 ELECTIVE

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.

SOFTWARE DEVELOPMENT TOOLS (1 semester = 1 credits) GRADES 9-12 ELECTIVE

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

TECHNOLOGY & BUSINESS (1 year = 2 credits) GRADES 9-12 ELECTIVE

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.

KEYBOARDING & APPLICATIONS (1semester = 1 credits) GRADES 9-12 ELECTIVE

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

their keyboarding skills and create a variety of business documents, including word processing documents and electronic presentations.

### CAREERS IN MARKETING RESEARCH (1 semester = 1 credits) GRADES 9-12 ELECTIVE

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.

### MARKETING & SALES FOR TOURISM & HOSPITALITY

(1 semester = 1 credits) GRADES 9-12 ELECTIVE

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 multifaceted world, identifying multiple career paths and opportunities.

## FORGEIN LANGUAGE

### SPANISH I

(1 year = 2 credits)

GRADES 9-12 ELECTIVE

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

### SPANISH II

(1 year = 2 credits)

GRADES 9-12 ELECTIVE

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 an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major Spanish-speaking areas in Europe and the Americas, and assessments.

### SPANISH II

(1 year = 2 credits)

GRADES 9-12 ELECTIVE

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.

AP SPANISH LANGUAGE CULTURE (1 year = 2 credits) GRADES 12 ELECTIVE

Spanish Language and Culture is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical, and communication World Languages 25 skills. The course prepares students for the AP Spanish Language and Culture Exam. It uses as its foundation the three modes of communication (interpersonal, interpretive, and presentational) as defined in the Standards for Foreign Language Learning in the Twenty-First Century. The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. In addition, students participate in a forum where they are able to share their opinions and comments about various topics and comment on other students' posts. The course also makes great use of the Internet for updated and current material.

## **FINE ARTS**

INTRODUCTION TO ART (1 year = 2 credits) GRADES 12 ELECTIVE

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, Intro to Art provides an overview of many introductory themes: the definition of art, the cultural purpose of art, visual elements of art, terminology and principles of design, and two- and three-dimensional media and techniques. Tracing the history of art, high school students enrolled in the course also explore the following time periods and places: prehistoric art, art in ancient civilizations, and world art before 1400

ART HISTORY I (1 year = 2 credits) GRADES 12 ELECTIVE

Introducing art within historical, social, geographical, political, and religious contexts for understanding art and architecture through the ages, this course offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions. Students enrolled in this course cover topics including early

medieval and Romanesque art; art in the twelfth, thirteenth, and fourteenth centuries; fifteenth century art in Europe; sixteenth-century art in Italy; the master artists; High Renaissance and baroque art; world art, which includes the art of Asia, Africa, the Americas, and the Pacific cultures; eighteenth-and nineteenth-century art in Europe and the Americas; and modern art in Europe and the Americas.

### FUNDAMENTALS OF DIGITAL MEDIA (1 semester = 1 credit) GRADES 9-12 ELECTIVE

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.

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

(1 semester = 1 credits) GRADES 9-12 ELECTIVE

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.

### INTRODUCTION TO CAREERS IN ARTS, A/V TECHNOLOGY & COMMUNICATIONS

(1 semester = 1 credits) GRADES 9-12 ELECTIVE

This introductory semester-long high school course provides comprehensive information on five separate areas of arts and communications as potential educational and career pathways, including: audio/video technology and film, performing arts, visual arts, printing technology, journalism and broadcasting, and telecommunication systems. Students who are interested in careers across a broad spectrum of professional positions, including fine artist, telecommunications administrator, magazine editor, broadcast journalist, or computer graphic artist, will gain useful perspectives on industry terminology, technology, work environment, job outlook, and guiding principles.

## HEALTH SCIENCE

INTRO TO HEALTH SCIENCE (1 year = 2 credits) GRADES 10-12 ELECTIVE

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 will learn terminology, anatomy and physiology, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of medical emergency care. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the healthcare field.

HEALTH SCIENCE CONCEPTS (1 year = 2 credits) GRADES 10-12 ELECTIVE

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

MEDICAL TERMINOLOGY (1 semester = 1 credit) GRADES 9-12 ELECTIVE

This semester-long course introduces students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to healthcare settings, medical procedures, pharmacology, human anatomy and physiology, and pathology. The knowledge and skills gained in this course will provide students entering the healthcare field with a deeper understanding of the application of the language of health and medicine. Students are introduced to these skills through direct instruction, interactive tasks, and practice assignments.

INTRO TO CAREERS IN HEALTH SCIENCE  
(1 semester = 1 credit) GRADES 9-12 ELECTIVE

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.

## PHYSICAL EDUCATION / HEALTH

### CONTEMPORARY HEALTH

(1 year = 2 credits)

GRADES 9-12 ELECTIVE

This year-long course designed for high school students examines and analyzes various health topics. It places alcohol use, drug use, physical fitness, healthy relationships, disease prevention, relationships, and mental health in the context of the importance of creating a healthy lifestyle. Throughout the course, students examine the practices and plans they can implement in order to carry out a healthy lifestyle, and the consequences they can face if they do not follow safe health practices. In addition, students conduct in-depth studies in order to create mentally and emotionally healthy relationships with peers and family, and to devise healthy nutrition, sleeping, and physical fitness plans. Students also examine and analyze harassment and bullying laws. The Contemporary Health course does cover sensitive topics such as sexual intercourse, contraception, sex and gender, pregnancy, sexual harassment, physical violence, emotional abuse, sexually transmitted infections, and substance use and abuse.

### HEALTHY LIVING

(1 semester = 1 credit)

GRADES 9-12 ELECTIVE

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

### LIFETIME FITNESS

(1 year = 2 credits)

GRADES 9-12 ELECTIVE

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

## STEM (Science, Technology, Engineering, and Mathematics)

### INTRO TO STEM

(1 semester = 1 credit)

GRADES 9-12 ELECTIVE

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.

SCIENCE & MATH IN THE REAL WORLD (1 semester = 1 credit) GRADES 9-12 ELECTIVE

Science and Mathematics in the Real World is a semester-long high school course where students focus on how to apply scientific and mathematical concepts to the development of plans, processes, and projects that address real world problems, including sustainability © Copyright Edgenuity, Inc. Career and Technical Education Courses PAGE 31 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 & DEVELOPMENT

(1 semester = 1 credit)

GRADES 9-12 ELECTIVE

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

STEM & PROBLEM SOLVING

(1 semester = 1 credit)

GRADES 9-12 ELECTIVE

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.

**SCIENTIFIC RESEARCH** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

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.

**SOCIAL EMOTIONAL LEARNING**

**CHARACTER & LEADERSHIP DEV** (.25 semester = .25 credit) GRADES 9-12 ELECTIVE

Character & Leadership Development empowers students to become a difference maker. They will learn what it takes to hone their leadership styles and develop personal qualities that will enhance their ability to grow and sustain healthy relationships. By using critical thinking, good decision making, and hard work, students will begin to find both success and significance. Leadership is a word that has been around forever, and yet its definition continues to take on new forms because of how rapidly new generations are changing the priorities of society. In this course, students will learn what leadership looks like in a 21st-century world, how new generations are adapting to lasting principles and how to influence others and take on a leadership role in their own community. The course begins with providing students the opportunity to identify and write out their life vision, mission, and purpose and begin to understand the value of making memories, having adventures, and creating meaningful experiences. Upon completion of this course, students will have a clear understanding of what it takes to have an impact on their family, friends, and peers, as well as a personal action plan of practical steps they can take to reach their goals.

**CLIMATE & CULTURE TRANS** (.25 semester = .25 credit) GRADES 9-12 ELECTIVE

Climate & Culture Transformation is a course designed to teach students the different aspects of health and safety, relationship support, social awareness, and equity, inclusion, & diversity. The climate and culture of a school, community, or relationship are all based on mutual and

self-respect, perspective-taking, healthy communication, and positive values. In this course, students are challenged to reflect on and learn more about themselves and others, as well as how to advocate for safer and more supportive environments. Each lesson is packed with positivity and insight needed to envision a brighter future for all.

COLLEGE & CAREER READINESS (.25 semester = .25 credit) GRADES 9-12 ELECTIVE

Now, more than ever, students are told they must be prepared for higher education or a career in a skilled profession. Gone are the days when the goal of a high school graduate was to enter a traditional four-year college program. In its place are several different pathways that a graduate can take to successfully enter the workforce. This course introduces students to a variety of educational and vocational opportunities and helps them identify which pathway will help them reach their goals. The content in this course provides instruction on skills essential for students preparing for college and/or a career, including: how to build an effective resume, how to groom and dress in the workplace, the power of networking and how to develop disciplines that lead to success. Why have 21st-century skills become such a focus for educators, parents and employers? The global economy is rapidly changing, and the educational experience cannot keep up with the pace of the demands in a competitive, knowledge-based, technology-driven society. Students must now develop a level of digital literacy that allows them to compete in an increasingly competitive market. For most students, developing values, beliefs, attitude, and social awareness are becoming just as important as developing academic abilities. To be college and career ready signifies that the student has developed the capacity to succeed in whatever they choose to do in life.

MENTAL HEALTH & WELLNESS (.25 semester = .25 credit) GRADES 9-12 ELECTIVE

Mental Health & Wellness is a course designed to reinforce and empower a student's overall mental health, especially in times of crisis or trauma. This course is designed to help students cope with difficult situations, self-soothe, and manage conflicting emotions. It seeks to give students the tools they need to keep their mind and well-being safe and sound. Resiliency is essential for our development as citizens of the modern world. In this course, students will upgrade their self-management tool kit. They explore topics from anger management and bullying to dealing with family challenges and the impact of diversity on our society. Throughout the course, students add to this personal tool box of life skills, by exploring the social and emotional skills and strategies that will help them overcome adversity and life obstacles. Success in life comes from overcoming personal, professional, and social challenges. In this course, students hear stories of success and reconciliation and learn strategies to cope when these kinds of challenges arise. By participating in this course, students build a framework for citizenship, embrace the value of diversity, and learn how to appropriately use their voice to fight against injustices. Upon completing this course, students will understand the value of resiliency and how to utilize a framework for working through life challenges, enabling them to lead a meaningful and fulfilling life.

PERSONAL DEVELOPMENT (.25 semester = .25 credit) GRADES 9-12 ELECTIVE

Personal Development is a course designed to increase a student's success in school, at work, and in their personal life. Each of the lessons in this course provide students with practical insights, stories, discussion questions, and activities designed to enhance self-awareness, boost self-esteem, and help develop the motivation it takes to overcome personal challenges. By participating in course activities and discussions, students build a valuable record of their goals, dreams, skills, interests, and values. Students will also develop the skills necessary to make informed and responsible decisions about their own well-being, as well as the well-being of others. Personal development is a vital part of growth, maturity, success, and happiness. It is the foundation of emotional, physical, intellectual, and spiritual health. Rather than considering personal development to be a selfish act, this course provides students with an opportunity to understand the benefits that it brings to those around them. Upon completing this course, students will understand how to live with intention in everything they do, and how to experience more happiness and fulfillment in their lives.

### RESTORATIVE PRACTICES & PRINCIPLES

(.25 semester = .25 credit) GRADES 9-12 ELECTIVE

This course is designed to provide individuals with the knowledge and tools to improve and repair relationships between people and communities. It seeks to build social behaviors and treat underlying causes that lead to antisocial behavior, rather than merely punish the misbehavior itself, and restore the trust and harmony in both individuals and relationships after harm is done. By participating in this course, students learn to evaluate the impact that their environment and experiences have on them, and then build purposeful, positive futures for themselves, regardless of their history, circumstance, or past mistakes. This course aims to instill the confidence, inspiration, and wisdom needed to break through any social stereotypes or barriers that stand in the way of reaching their full, best potentials possible.

### SOCIAL & EMOTIONAL SUCCESS (.25 semester = .25 credit) GRADES 9-12 ELECTIVE

Social & Emotional Success is a course designed to strengthen a student's social capacity and their emotional intelligence. Through a study of mindfulness, students develop a strong sense of self, enabling them to develop successful relationships, make healthy decisions, and achieve their goals. In this course, students use a systematic approach to apply knowledge, attitudes, and skills to manage their emotions and social connections. By participating in the activities and discussions in this course, students will learn how to empathize with others and create long-lasting relationships. Upon completing this course, students will be empowered with the skills to identify problems, utilize critical thinking to evaluate and reflect on solutions, and engineer their own philosophy towards mindfulness.

### TRAUMA-INFORMED LIVING (.25 semester = .25 credit) GRADES 9-12 ELECTIVE

Trauma-Informed Living is designed to address common mental health issues, provide resources and techniques to healthily process, cope, and heal our emotions, and reduce the

stigma of mental health issues in society. There are many common, and normal, mental experiences that individuals face that are misunderstood, undiscussed, and/or untreated, which may lead to long-term and development problems or suicidal thoughts and behaviors. By participating in this course, students learn how to prevent, recognize, and identify different mental health issues, how to navigate the emotions involved, how to seek resources for help with mental health, and how to help others in need do the same. The topics discussed in this course include: personal safety and wellness, self-esteem, potential mental barriers, social-emotional trauma, childhood trauma, mental health disorders, and suicide prevention and awareness.

UNLOCK YOUR PURPOSE (.25 semester = .25 credit) GRADES 9-12 ELECTIVE

Unlock Your Purpose is a course designed to help you achieve the maximum potential in your life. Instead of starting with what we want to do and how we choose to accomplish it, this course helps students unearth the purpose: why do we want to do it. When we start with our purpose, we discover the underlying factors, beliefs, and values that motivate us and drive our lives--ultimately enhancing self-awareness and self-esteem. In this course, students will investigate their why and identify the person they want to become. Yet, no matter how strong their self-awareness is, events will occur that will challenge them. This course allows students to examine what motivates them to keep pressing on and pushing through the pain of growth that is necessary to leading a fulfilling life. By participating in activities and discussions in this course, students build the interpersonal and intrapersonal skills that lead to a life of purpose. Upon completing this course, students will understand how to balance the principles of happiness and success, the importance of helping others, the connection between internal thoughts and external communication, and how to build and maintain healthy relationships.

## MULTI-OCCUPATIONAL CAREERS

CAREER PLANNING & DEVELOPMENT (1 year = 2 credits) GRADES 12 REQUIREMENT

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

TEACHING & TRAINING CAREERS (1 semester = 1 credit) GRADES 9-12 ELECTIVE

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.

PHYSICIANS. PHARMACISTS. DENTISTS. VETERINARIANS & OTHER DOCTOR CAREERS  
(1 semester = 1 credit) GRADES 9-12 ELECTIVE

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.

CAREER EXPLORATION COURSES (1 semester = 1 credit) GRADES 9-12 ELECTIVE

Career courses are available in different career fields. These courses are for students to explore different careers of interest or to help find a career path they would like to pursue.

WORK STUDY

(120 hours worked = 1 credit, up to 9 credits in HS Career) GRADES 9-12 ELECTIVE

Students have the opportunity to receive credit for working an outside-of-school job. Students will receive one credit for every 120 hours worked. Students will submit a “work study agreement” and midterm and end of term evaluations and proof (pay stubs) of 120 hours of work. Meeting with the teacher and workplace will take place at least twice a semester. The “work study agreement” must be agreed upon by both school administration and place of employment. The forms must be turned in within two weeks of the semester. If a student does not successfully complete a work study agreement, they will not be considered for future work study agreements.

INTERNSHIP (1 semester = 1 credit) GRADES 11-12 ELECTIVE

On track to graduate, internship established before August 15th for approval in the program, learning targets & deadlines met, work at least 4 hours/week at the business, no behavior referrals, GPA of 3.0 or higher, & school attendance of 90% or better previous year. Students in high school will actively have an internship with a local company in the immediate area. The

goal will be for the students to work in a work-study format with a local business. The internship may be paid or not depending on the contract between the school and place of business. Students will work on a weekly journal to assess job performance and learning objectives.

APPRENTICESHIP (1 semester = 1 credit) GRADES 11-12 ELECTIVE  
PREREQUISITE: Internship

## **STUDENT SUCCESS & TEST PREP**

ACT PREP E1 (1 semester = 1 credit) GRADES 9-12 ELECTIVE  
Emphasis: English

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

ACT PREP R2 (1 semester = 1 credit) GRADES 9-12 ELECTIVE  
Emphasis: Reading

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

ACT PREP M3 (1 semester = 1 credit) GRADES 9-12 ELECTIVE  
Emphasis: Math

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

ACT PREP S4 (1 semester = 1 credit) GRADES 9-12 ELECTIVE  
Emphasis: Science

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

STRATEGIES FOR ACADEMIC SUCCESS (1 semester = 1 credit) GRADES 9-12 ELECTIVE

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

## **ADVANCED PLACEMENT (AP)**

Advanced Placement (AP®) courses are college-level courses offered by high schools. The courses, curriculum requirements, and optional tests are provided by The College Board. Based on the examination score and the postsecondary institution's policies, students may be eligible for college credit or advanced standing at the college or university they later matriculate.

Student's Personal Learning Plans will indicate if a student is eligible for AP courses. Students will be enrolled in AP courses with Coordinator approval.

### **AP ENVIRONMENTAL SCIENCE (1 Year = 2 credit) GRADES 9-12 ELECTIVE**

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

### **AP ENGLISH LANGUAGE & COMPOSITION (1 Year = 2 credit) GRADES 9-12 ELECTIVE**

Students in AP® English Language and Composition study how writers use language to create meaning. Students will read and analyze a variety of nonfiction genres including essays, journalism articles, political writings, science writings, nature writings, autobiographies, biographies, diaries, speeches, history writings, and criticisms. The main focus is on writing expository, analytical, and argumentative essays and analyzing the works of writers who are listed in the AP English Course Description. In addition to writing, students will also study visual rhetoric such as photographs, advertisements, and political cartoons. As suggested in the AP English Course Description, students learn to “read primary and secondary sources carefully, to synthesize material from these texts in their own compositions, and to cite sources using conventions recommended by the Modern Language Association (MLA).” The class is structured around teaching reading and writing skills, honed by the close reading and writing of original student essays, many of which result from several revisions. This content is presented in an online course through which students view lectures from experienced, highly qualified

instructors, access nonfiction rhetoric (written and visual), and practice close reading and writing skills with continual feedback from instructors via phone, instant messages, e-mails, discussion threads, and live chats.

AP ENGLISH LITERATURE & COMPOSITION (1 Year = 2 credit) GRADES 9-12 ELECTIVE

AP English Literature and Composition is designed to be a college/university-level course. This course equips students to critically analyze all forms of literature to comment insightfully about an author or genre's use of style or literary device. Students will also interpret meaning based on form; examine the trademark characteristics of literary genres and periods; and critique literary works through expository, analytical, and argumentative essays. As students consider styles and devices, they will apply them to their creative writing. In addition to exposing students to college-level English coursework, this course prepares them for the AP exam.

AP CALCULUS (1 Year = 2 credit) GRADES 9-12 ELECTIVE

AP<sup>®</sup> Calculus AB is a yearlong, college-level course designed to prepare students for the Advanced Placement (AP) Calculus AB exam. Major topics of study in this full-year course include a review of precalculus; the use of limits, derivatives, definite integrals, and mathematical modeling of differential equations; and the applications of these concepts. Emphasis is placed on the use of technology to solve problems and draw conclusions. The course uses a multi-representative approach to calculus, with concepts and problems expressed numerically, graphically, verbally, and analytically. This course is aligned to the new College Board AP Calculus AB course description that was introduced in 2016.

AP STATISTICS (1 Year = 2 credit) GRADES 9-12 ELECTIVE

AP<sup>®</sup> Statistics is a yearlong, college-level course designed to prepare students for the Advanced Placement (AP) Statistics exam. Major topics of study include exploring one- and two-variable data, sampling, experimentation, probability, sampling distributions, and statistical inference. These topics are organized into three big ideas: variation and distribution, patterns and uncertainty, data-based predictions, decisions, and conclusions. This course is aligned to the new College Board AP<sup>®</sup> Statistics course description that was introduced in 2019.

AP PSYCHOLOGY (1 Semester = 1 credit) GRADES 9-12 ELECTIVE

The AP Psychology course introduces students to the scientific study of the behaviors and mental processes of human beings. Students will study a wide range of topics, including the history and approaches of psychology, research methods, behavior and learning, personality, and abnormal behavior and its treatment. Over the course of study, students will create a biography book detailing the contributions of important figures in the field. In addition, students will be exposed to a wide variety of activities, readings, and research studies during the course.

## AP US GOVERNMENT & POLITICS (1 Semester = 1 credit) GRADES 9-12 ELECTIVE

AP US Government and Politics is a semester-long, college-level course designed to prepare students for the Advanced Placement (AP) US Government and Politics exam. The goal of this course is to explore and analyze important concepts of US government and politics. By the end of this course, students will have an understanding of the US Constitution and political system. Students will demonstrate their understanding and acquisition of skills through written work, project-based activities, and practice exams.

## AP BIOLOGY (1 Year = 2 credit) GRADES 9-12 ELECTIVE

Edgenuity AP® Biology is a nine-unit, college-level biology course that engages students in the study of evolution, energetics, information storage and transmission, and systems interactions. This yearlong course covers the advanced concepts of biology and features interactive or hands-on experiences, such as projects and laboratory investigations, that encourage inquiry and higher-order thinking applications. The concepts of this course include biochemistry, cells, enzymes, metabolism, cell communication, cell cycle, heredity, gene expression, evolution, genetic diversity, and ecology. The course is designed to prepare students to take the College Board AP Biology exam.

## AP US HISTORY (1 Year = 2 credit) GRADES 9-12 ELECTIVE

This year-long AP U.S. History course provides an in-depth study of American history from the pre-Columbian era to the present and is aligned to the new 2015 AP U.S. History exam. The course emphasizes themes such as national identity, economic transformation, immigration, politics, international relations, geography, and social and cultural change. Students learn to assess historical materials, weigh the evidence and interpretations presented in historical scholarship, and analyze and express historical understanding in writing.

## IWCC ONLINE & IN PERSON LEARNING

IWCC Course Lookup [Link](#) or Go to [IWCC.edu](http://IWCC.edu)

Student's Personal Learning Plans will indicate if a student is eligible for IWCC courses.

Students will be enrolled in IWCC courses with Coordinator approval.

## Health Science Certification

### [Nurses Aide Certification](#)

The Nurse Aide Certificate program of study is designed to place students into the workforce upon completion of this certificate. The certificate program prepares students for entry-level jobs in healthcare as nurse aids in hospitals, clinics, and other healthcare facilities. The national job market for nurse aids is large and growing steadily, with more opportunities for nurse aides in nursing care facilities than in hospitals.

Courses are offered onsite with SHS staff and/or with IWCC staff

HSC-113 Medical Terminology	(1 HS credits & 2 College Credits)
HSC-172 Nurse Aide	(1.5 HS credits & 3 College Credits)

Internship - Optional	(1 HS credits per semester)
Apprenticeship - Optional	(1 HS credits per semester)

### [Nursing: Advanced Nursing Assistant Certificate](#)

Courses are offered onsite with SHS staff and/or with IWCC staff

HSC 172 - Nurse Aide	(3 credits per semester)
HSC 113 - Medical Terminology	(2 credits per semester)
PEH 130 - CPR and First Aid in the Workplace	(1 credits per semester)
MGT 195 - Workplace Empowerment	(3 credits per semester)
BIO 157 - Human Biology	(4 credits per semester)
ENG 110 - Writing For The Workplace or ENG 105 - Composition I	(3 credits per semester)

Internship - Optional	(1 HS credits per semester)
Apprenticeship - Optional	(1 HS credits per semester)

## **Agricultural, Food, and Natural Resources Certification**

### [Agribusiness Administration Certificate](#)

Courses are offered onsite with SHS staff and/or with IWCC staff

AGA 181 - Introduction to Crop Science	(1.5 HS credits & 3 College Credits)
AGS 113 - Survey of the Animal Industry	(1.5 HS credits & 3 College Credits)
AGB 330 - Farm Business Management	(1.5 HS credits & 3 College Credits)
AGB 101 - Agricultural Economics	(1.5 HS credits & 3 College Credits)
AGB 466 - Agricultural Finance	(1.5 HS credits & 3 College Credits)
MAT 711 - Business and Financial Mathematics or Math 102 or High College Math Course	(1.5 HS credits & 3 College Credits)

Internship - Optional	(1 HS credits per semester)
Apprenticeship - Optional	(1 HS credits per semester)

## **Construction Technology**

### [Carpentry Certificate](#)

Courses are offered onsite with SHS staff and/or with IWCC staff

MAT 743 - Technical Math I	(1.5 HS credits & 3 College Credits)
CON 114 - Residential Print Reading	(1.5 HS credits & 3 College Credits)
CON 180 - Principles of Building Construction I	(1.5 HS credits & 3 College Credits)
CON 170 - Building Construction Techniques I	(3 HS credits & 6 College Credits)
CON 266 - Construction Safety	(1.5 HS credits & 3 College Credits)

Internship - Optional	(1 HS credits per semester)
Apprenticeship - Optional	(1 HS credits per semester)

## **TARKIO TECH & IN PERSON LEARNING**

### **Welding Certification**

#### [Certification Link](#)

##### Semester 1:

WD 101 – Intro to Welding, Safety, and Health	(1.5 HS credit & 3 College Credits)
BP 103 – Print Reading and Welding Symbols	(1.5 HS credit & 3 College Credits)
WD 102 – Arc Welding	(1.5 HS credit & 3 College Credits)
WD 201 – Oxy-Acetylene Welding	(1.5 HS credit & 3 College Credits)

##### Semester 2:

WD 202 – Gas Metal Arc Welding	(1.5 HS credit & 3 College Credits)
WD 203 – Gas Tungsten Arc Welding	(1.5 HS credit & 3 College Credits)
WD 204 – Advanced MIG Welding	(1.0 HS credit & 2 College Credits)
WD 205 – Advanced TIG Welding	(1.0 HS credit & 2 College Credits)

Internship - Optional	(1 HS credits per semester)
Apprenticeship - Optional	(1 HS credits per semester)

### **Advanced Welding Certification**

#### [Certification Link](#)

##### Semester 1:

WD 300 – Advanced Welding	(1.0 HS Credit & 2 College Credits)
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##### Semester 2:

WD 305 – Work-Based Welding	(1.0 HS credit & 2 College Credits)
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Internship - Optional (1 HS credits per semester)  
Apprenticeship - Optional (1 HS credits per semester)

## Plumbing Certification

### [Certification Link](#)

#### Semester 1:

PL 101 - Modern Plumbing	(4.0 HS credit & 8 College Credits)
PL 102A – Plumbing Maintenance & Repairs	(1.5 HS credit & 3 College Credits)
WD 101 – Basic Welding	(1.0 HS credit & 2 College Credits)
BP 101 – Blueprint Reading -Construction	(1.5 HS credit & 3 College Credits)

#### Semester 2:

PL 102B – Plumbing Maintenance & Repairs	(1.5 HS credit & 3 College Credits)
PL 110 – Advanced Plumbing	(2.5 HS credit & 5 College Credits)
PL 120 – Plumbing Estimating	(1.0 HS credit & 2 College Credits)
PL 201 – Commercial Plumbing	(1.5 HS credit & 3 College Credits)
PL 202 – Basic Electrical for Plumbers	(1.5 HS credit & 3 College Credits)

Internship - Optional (1 HS credits per semester)  
Apprenticeship - Optional (1 HS credits per semester)

## Wind Energy Certification

### [Certification Link](#)

#### Semester 1:

WE 101 – Introduction to Wind Energy	(2.0 HS credit & 4 College Credits)
WE 102 – Industrial Safety & Climbing	(1.0 HS credit & 2 College Credits)
WE 200 – Basic Electricity	(1.5 HS credit & 3 College Credits)
WE 210 – Electric Motors & Generators	(1.5 HS credit & 3 College Credits)
WE 250 – Basic Hydraulics	(1.5 HS credit & 3 College Credits)

#### Semester 2:

BP 102 – Blueprint Reading for Wind Energy	(1.5 HS credit & 3 College Credits)
WE 103 – Wind Energy Maintenance & Repair	(1.5 HS credit & 3 College Credits)
WE 201 – Advanced Electricity	(1.5 HS credit & 3 College Credits)
WE 230 – Mechanical Systems	(1.5 HS credit & 3 College Credits)
WE 260 – On-Site Training	(1.5 HS credit & 3 College Credits)

Internship - Optional (1 HS credits per semester)  
Apprenticeship - Optional (1 HS credits per semester)

## HVAC Certification

### [Certification Link](#)

#### Semester 1:

HVAC 101 – HVAC Installation 1	(2.5 HS credit & 5 College Credits)
HVAC 102 – Electrical Application for HVAC 1	(1.5 HS credit & 3 College Credits)
HVAC 203 – Pipe Joining Methods	(1.5 HS credit & 3 College Credits)
BP 104 – Plan & Print Reading	(1.0 HS credit & 2 College Credits)
WD 101 – Intro to Welding & Safety	(1.5 HS credit & 3 College Credits)

#### Semester 2:

HVAC 201 – HVAC Installation 2	(3.5 HS credit & 7 College Credits)
HVAC 202 – Electrical Applications for HVAC 2	(1.5 HS credit & 3 College Credits)
HVAC 106 – Internship A (6 hr/week)	(1.5 HS credit & 3 College Credits)
HVAC 206 – Internship B (6 hr/week)	(1.5 HS credit & 3 College Credits)

Internship - Optional (1 HS credits per semester)  
Apprenticeship - Optional (1 HS credits per semester)

## Computer Information Technology Certification

### [Certification Link](#)

#### Semester 1:

CIT 220 – Introduction to Networks	(1.5 HS credit & 3 College Credits)
CIT 250 – Security Concepts	(1.5 HS credit & 3 College Credits)
CIT 230 – Linux/UNIX Systems	(1.5 HS credit & 3 College Credits)
CIT 130 – Hardware & Software Support	(1.5 HS credit & 3 College Credits)
CIT 120 – Network Concepts	(1.5 HS credit & 3 College Credits)
CIT 260 – Social Media Marketing	(1.5 HS credit & 3 College Credits)

#### Semester 2:

COMM 101 – Communication	(1.5 HS credit & 3 College Credits)
CIT 140 – Operation Systems Concepts	(1.5 HS credit & 3 College Credits)
CIT 190 – Computer Repair & Maintenance	(1.0 HS credit & 2 College Credits)
CIT 280 – A+ Certification Core 1	(2.0 HS credit & 4 College Credits)
CIT 290 – A+ Certification Core 2	(2.0 HS credit & 4 College Credits)

Internship - Optional (1 HS credits per semester)  
Apprenticeship - Optional (1 HS credits per semester)

## **CERTIFIED NURSE AIDE**

Semester 1:

HSC 115 – Health Occupations	(1.5 HS credit & 3 College Credits)
HSC 100 – First Aid/CPR/AED	(0.5 HS credit & 1 College Credit)
HSC 113 – Medical Terminology	(1.5 HS credit & 3 College Credits)
HSC 128 – Anatomy & Physiology	(1.5 HS credit & 3 College Credits)

Semester 2:

HSC 200 – Nurse Aide	(2.5 HS credit & 5 College Credits)
HSC 250 – Nurse Aide Clinicals	(1.75 HS credit & 3.5 College Credits)
COMM 101 – Communication	(1.5 HS credit & 3 College Credits)

Internship - Optional (1 HS credits per semester)  
Apprenticeship - Optional (1 HS credits per semester)

## **HONORS**

Honors courses are available by approval of IGNITE Director approval.

## **CREDIT RECOVERY**

Courses are available for students that need to recover a credit. Students will be enrolled in credit recovery courses with Director approval.