

West Linn-Wilsonville K12 Online Program
Academic Program Guide
HIGH SCHOOL COURSES
2020-2021

Welcome to the West Linn-Wilsonville K12 Online Program! We look forward to supporting you this year in our exclusively online program. The Academic Program Guide is designed to help you select your courses for the 2020-2021 school year. It will continue to be updated throughout the year. Please note that in August, a high school counselor will be available to assist you in making these important decisions. In the meantime, please contact the Program Director, Carolyn Miller at millerc@wlwv.k12.or.us, or Program Assistant, Julie Lane at lanej@wlwv.k12.or.us if you have any questions.

ONLINE PLATFORM: FUEL EDUCATION

The West Linn-Wilsonville School District has selected the curriculum platform, Fuel Education, to deliver our exclusively online program. The courses are aligned with Oregon state standards as well as with the district's beliefs about curriculum and instruction. The platform includes a built-in Learning Management System similar to Google Classroom, and a Collaboration Tool similar to Zoom. While Fuel Education is a robust platform with many resources, district teachers will be involved in the online program, will make the critical decisions about the lessons provided, and will be available for support. Please plan to learn more about Fuel Education's curriculum and scheduling in August.

MATERIALS

Materials Kits will be provided to families based on the needs of the course. There is no fee for families and families will be notified regarding pick-up. Families will provide common household items like baking soda or baggies, and basic school supplies like writing notebooks. Other materials may also be required for a course such as: downloadable software, digital camera, or art/sewing supplies. More information about these supplies will come from your student's teacher(s).

INTRODUCTION TO ONLINE LEARNING

All students take this course at the beginning of the year. Not for credit.

The Introduction to Online Learning course explains to students how the K12 High School program works and provides tips on successful online learning. Students are introduced to the online tools that they will use during their high school experience, including the Learning Management System that delivers course assignments. Students take part in online discussions and practice submitting computer-scored assessments and other assignments to teachers. Lifelong learning skills, such as time management and study habits, are also covered. By the end of the course, students will be fully prepared to begin their K12 high school courses.

ADDITIONAL HIGH SCHOOL INFORMATION

Please see your home high school's website and academic program or curriculum guide for important high school information. Please note that a high school counselor will be available to support you in the online program beginning in August.

[Arts and Technology High School Graduation Requirements](#)
[West Linn High School Academic Program Guide](#)
[Wilsonville High School Curriculum Guide](#)

GRADUATION REQUIREMENTS 2020-2021

Department	Required Credits	Scheduling Requirements
English Language Arts	4	<ul style="list-style-type: none"> ● 8 semesters ● 2 semesters in each of the 9th-12th grades
Mathematics	3	<ul style="list-style-type: none"> ● 6 semesters ● Algebra I and above
Science	3	<ul style="list-style-type: none"> ● 6 semesters ● 2 semesters of Biological Lab Science ● 2 semesters of Physical Lab Science
Social Studies	3	<ul style="list-style-type: none"> ● 6 semesters ● 1 semester of World History ● 2 semesters of US History ● 3 semesters of Social Studies Selectives
Health and Physical Education	2	<ul style="list-style-type: none"> ● 4 semesters ● 2 semesters of Health ● 2 semesters of PE
Applied/Fine/Performing Arts or World Language	3	<ul style="list-style-type: none"> ● 6 semesters ● Any one area or in combination
Electives	6	<ul style="list-style-type: none"> ● Any content area
	24	TOTAL CREDITS

GRADE POINT AVERAGE & CLASS RANK

A cumulative GPA is computed for each student based on grades received in all courses taken in 9th-12th grades. Students in AP courses who take the AP exam earn an additional 1.0 quality point. AP courses are indicated by an 'AP' appearing before the course title on the transcript.

Class rank is a measure of how a student's GPA compares to other students in the class. All students are ranked at the end of the 6th, 7th, and 8th semesters. Class rank is computed using the quality points listed below.

Letter Grade	Unweighted Grading System	Weighted Grading System
A (90-100)	4.0	5.0
B (80-89)	3.0	4.0
C (70-79)	2.0	3.0
D (60-69)	1.0	1.0
F	No credit is given for a grade of "F"	

COURSE DESCRIPTIONS

*Course descriptions are listed alphabetically.
Please speak to your school counselor about course selection.*

ENGLISH LANGUAGE ARTS

AMERICAN LITERATURE

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: English 10

Graduation Requirement: ELA

In this course, students read and analyze works of American literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests.

AP® ENGLISH LANGUAGE AND COMPOSITION

1.0 Credit/2 semesters

Grade 11

Prerequisite: Students should be able to read and comprehend college level texts and apply conventions of Standard Written English in their writing.

Graduation Requirement: ELA

Students learn to understand and analyze complex works by a variety of authors. They explore the richness of language, including syntax, imitation, word choice, and tone. They also learn composition style and process, starting with exploration, planning, and writing. This continues with editing, peer review, rewriting, polishing, and applying what they learn to academic, personal, and professional contexts. In this equivalent of an introductory college-level survey class, students prepare for the AP® exam and further study in communications, creative writing, journalism, literature, and composition.

AP® ENGLISH LITERATURE AND COMPOSITION

1.0 Credit/2 semesters

Grade 12

Prerequisite: Students should be able to read and comprehend college level texts and apply conventions of Standard Written English in their writing.

Graduation Requirement: ELA

In this course, the equivalent of an introductory college-level survey class, students are immersed in novels, plays, poems, and short stories from various periods. Students read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and discussions. The course places particular emphasis on reading comprehension, structural and critical analyses of written works, literary vocabulary, and recognizing and understanding literary devices. Students prepare for the AP® exam and further study in communications, creative writing, journalism, literature, and composition.

BRITISH AND WORLD LITERATURE

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: American Literature

Graduation Requirement: ELA

Students read selections from British and world literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and settings. Students complete guided and independent writing assignments that refine their analytical skills. They have opportunities for creative expression in projects of their choice. Students also practice test-taking skills for standardized assessments in critical reading and writing.

CREATIVE WRITING

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: None

Graduation Requirement: Elective

Students create original essays, poems, and short stories in this course, which focuses on the four-step process writing model. They read professionally written forms of creative writing as models. They then integrate their impressions of these works with their personal life experiences as they compose their writing projects. Students are encouraged to write about topics they find engaging as they practice writing on the following themes: narration, definition, process analysis, cause and effect, and comparison/contrast. The teacher supplies feedback that helps students learn how to improve their self-expression and self-editing skills.

ENGLISH 9

1.0 Credit/2 semesters

Grade 9

Prerequisite: None

Graduation Requirement: ELA

This English 9 Summit course includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to grade 9. Throughout the course, students practice narrative, informational, and argumentative writing. Students also develop and deliver presentations and participate in discussions with their peers.

ENGLISH 10

1.0 Credit/2 semesters

Grade 10

Prerequisite: English 9

Graduation Requirement: ELA

This English 10 Summit course includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to grade 10. Throughout the course, students practice narrative, informational, and argumentative writing. Students also develop and deliver presentations and participate in discussions with their peers.

GOTHIC LITERATURE

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

Since the 18th century, Gothic tales have influenced fiction writers and fascinated readers. This course focuses on the major themes found in Gothic literature and looks at how the writing creates a suspenseful environment for readers. Some of the recurring themes and elements found in the genre are also presented. As they complete the course, students gain an understanding of and an appreciation for the complex nature of Gothic literature.

GRAMMAR AND COMPOSITION

1.0 Credit/2 semesters (may be taken for 0.5 Credit for 1 semester)

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In the course, students consider the themes of personal identity and coming of age as they engage in writing assignments designed to provide basic writing practice. Students read several short literary pieces. Instruction focuses on ideas, organization, sentence fluency, and conventions.

JOURNALISM

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write news and feature articles. Students conduct interviews, research, write, and design publications.

Materials required: Digital camera

MYTHOLOGY AND FOLKLORE

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

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

PUBLIC SPEAKING

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

Students are introduced to public speaking as an important component of their academic, work, and social lives. They study public speaking occasions and develop skills as fair and critical listeners, or consumers, of spoken information and persuasion. Students study types of speeches (informative, persuasive, dramatic, and special occasion), read and listen to models of speeches, and prepare to present their speeches to diverse audiences. Students learn to choose speaking topics and adapt them for specific audiences, to research and support their ideas, and to benefit from listener feedback. They study how to incorporate well-designed visual and multimedia aids in presentations and how to maintain a credible presence in the digital world. Students also learn about the ethics of public speaking and about techniques for managing communication anxiety.

Materials required: Downloadable software.

MATHEMATICS

ALGEBRA 1 BRIDGE

1.0 Credit/2 semesters

Grade 9

Prerequisite: None

Graduation Requirement: Mathematics

Success in Algebra 1 depends on a student's proficiency in concepts presented in prior courses, and the ability to integrate new concepts with that prior knowledge. The Bridge to Algebra 1 course incorporates all the necessary prerequisite skills required for student success. The course assesses students on these prerequisite skills before presenting related Algebra 1 concepts. Success on these assessments indicates preparedness for the next step in algebraic conceptual thinking. Lack of success on these assessments initiates a review of prerequisite concepts. These carefully planned reviews are "bridges" to Algebra 1. By design, only those bridges determined to be appropriate for the individual student are released within the student's course sequence, providing a personalized path.

Each Algebra 1 unit includes two or three bridges of prerequisite concepts and skills. Each bridge strings together two levels of prerequisite content. The first level draws from concepts addressed in grades 7 and 8, and the second level digs even further back into foundational skills to draw from grades 7 and 6 content. Upon completion of a bridge, the associated new Algebra 1 concepts are presented. The bridges provide students with an opportunity to improve skills and increase the likelihood of success in Algebra 1. They aid in solidifying the connections that complete the puzzle of how mathematical topics are related.

The Bridge to Algebra 1 course covers the same instructional content as FuelEd's Algebra 1 course, helping students to formalize and extend the mathematics they learned in the middle grades and revisited in bridges content. Students deepen their understanding of linear and exponential relationships by contrasting them with each other. Students also apply linear models to data that exhibit a linear trend. The course also covers analyzing, solving, and using quadratic functions.

ALGEBRA 2

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: Algebra 1 and Geometry

Graduation Requirement: Mathematics

In this Algebra 2 Summit course, students build on their work with linear, quadratic, and exponential functions, and extend their repertoire to include polynomial, rational, radical, and trigonometric functions. Students also expand their ability to model situations and solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The course covers sequences and series, probability distributions, and more advanced data analysis techniques.

ALGEBRA 2 BRIDGE

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: Mathematics

Success in Algebra 2 depends on a student's proficiency in concepts presented in prior courses, and the ability to integrate new concepts with that prior knowledge. The Bridge to Algebra 2 course incorporates all the necessary prerequisite skills required for student success. The course assesses students on these prerequisite skills before presenting related Algebra 2 concepts. Success on these assessments indicates preparedness for the next step in algebraic conceptual thinking. Lack of success on these assessments initiates a review of prerequisite concepts. These carefully planned reviews are "bridges" to Algebra 2. By design, only those bridges determined to be appropriate for the individual student are released within the student's course sequence, providing a personalized path.

Each Algebra 2 unit includes two or three bridges of prerequisite concepts and skills. Each bridge strings together two levels of prerequisite content. The first level draws from concepts addressed in grades 7 and 8, and the second level digs even further back into foundational skills to draw from grades 7 and 6 content. Upon completion of a bridge, the associated new Algebra 2 concepts are presented. The bridges allow students to improve their skills and increase the likelihood of success in Algebra 2. They aid in solidifying the connections that complete the puzzle of how mathematical topics are related.

The Bridge to Algebra 2 course covers the same instructional content as K12's Algebra 2 course. Students build on their work with linear, quadratic, and exponential functions, and extend their repertoire to include polynomial, rational, radical, and trigonometric functions. Students also expand their ability to model situations and solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The course covers sequences and series, probability distributions, and more advanced data analysis techniques.

AP[®] CALCULUS AB

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: Pre-Calculus/Trigonometry

Graduation Requirement: Mathematics

In AP[®] Calculus AB, students learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Students learn to evaluate the soundness of proposed solutions and apply mathematical reasoning to real-world models instead of simply getting the right answer. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. The equivalent of an introductory college-level calculus course, AP[®] Calculus AB prepares students for the AP[®] exam and further studies in science, engineering, and mathematics.

AP[®] CALCULUS BC

Note: This course may be offered through an outside program. Contact your school counselor for information. Preference given to seniors needing the course to graduate.

1.0 Credit/2 semesters

Grade 12

Prerequisite: AP Calculus AB

Graduation Requirement: Mathematics

AP® STATISTICS

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: Trigonometry and/or Advanced Algebra

Graduation Requirement: Mathematics

AP® Statistics gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results of a poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real-world uncertainties, statistics play a vital role in many fields. The equivalent of an introductory college-level course, AP® Statistics prepares students for the AP® exam and further study in science, sociology, medicine, engineering, political science, geography, and business.

CALCULUS

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: Pre-Calculus, Trigonometry and/or Advanced Algebra

Graduation Requirement: Mathematics

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

CONSUMER MATH

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: None

Graduation Requirement: Elective

In Consumer Math, students study and review arithmetic skills they can apply in their personal lives and their future careers. The first semester of the course begins with a focus on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. In the second semester, students learn about personal finances, checking and savings accounts, loans and buying on credit, automobile expenses, and housing expenses. Narrated slideshows help illustrate some of the more difficult content. Throughout the course, students participate in online discussions with each other and their teacher.

GEOMETRY

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: Algebra 1

Graduation Requirement: Mathematics

This Geometry Summit course builds on the geometry covered in middle school to explore more complex geometric situations and deepen students' ability to explain geometric relationships, moving toward formal mathematical arguments. Specific topics include similarity and congruence, analytic geometry, circles, the Pythagorean theorem, right triangle trigonometry, analysis of three-dimensional objects, conic sections, and geometric modeling.

PRE-CALCULUS/TRIGONOMETRY

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: Geometry and Algebra 2

Graduation Requirement: Mathematics

Pre-calculus weaves the previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Topics include linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections in the first semester. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers. Cross-curricular connections are made throughout the course to calculus, art, history, and a variety of other fields related to mathematics.

PROBABILITY AND STATISTICS

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: Algebra 2

Graduation Requirement: Elective

Students learn counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression. Proficiency is measured through frequent online and offline assessments as well as asynchronous discussions. Problem-solving activities provide an opportunity for students to demonstrate their skills in real-world situations.

SCIENCE

ANATOMY AND PHYSIOLOGY 1A

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: Biology

Graduation Requirement: Biological Lab Science Selective

Starting with the relationship between anatomy and physiology, students learn about cell structure and their processes. They also examine the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems. With a focus on terminology, this course is essential to students pursuing the health sciences or wanting to gain a greater sense of how the human body works.

ANATOMY AND PHYSIOLOGY 2B

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: Anatomy and Physiology 1

Graduation Requirement: Biological Lab Science Selective

Building on the prior prerequisite course, students examine the form and function of even more body systems. Students learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and endocrine systems. The reproductive system is also discussed, along with hereditary traits and genetics. Finally, students explore the importance of accurate patient documentation as well as the technology used in the industry.

AP® BIOLOGY

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: Biology, Chemistry

Graduation Requirement: Biological Lab Science

This course guides students to a deeper understanding of biological concepts, including the diversity and unity of life, energy and the processes of life, homeostasis, and genetics. Students learn about regulation, communication, and signaling in living organisms, and interactions of biological systems. Students carry out several learning activities, including readings, interactive exercises, extension activities, hands-on and virtual laboratory experiments, and practice assessments. These activities are designed to help students understand the scientific process and critical-thinking skills necessary to answer questions on the AP® Biology exam.

AP® CHEMISTRY

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: Chemistry

Graduation Requirement: Physical Lab Science

Students solve chemical problems by using mathematical formulation principles and chemical calculations in addition to laboratory experiments. They build on their general understanding of chemical principles and engage in a more in-depth study of the nature and reactivity of matter. Students focus on the structure of atoms, molecules, and ions, and then go on to analyze the relationship between molecular structure and chemical and physical properties. To investigate this relationship, students examine the molecular composition of common substances and learn to transform them through chemical reactions with increasingly predictable outcomes. Students prepare for the AP® exam.

AP® ENVIRONMENTAL SCIENCE

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: Biology and Chemistry

Graduation Requirement: Biological or Physical Lab Science

AP® Environmental Science is equivalent to an introductory college-level environmental science course and is designed to prepare students for the College Board AP® Environmental Science Exam. AP® Environmental Science is interdisciplinary, incorporating various topics from different disciplines and areas of science.

ASTRONOMY

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: Physical Science Selective

This course introduces students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the origin of the universe, the Milky Way, and other galaxies and stars.

BIOLOGY

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Biological Lab Science

In this comprehensive course, students investigate the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of in-depth online lessons, including extensive animations, collaborative explorations, virtual laboratories, and hands-on laboratory experiments students can conduct at home.

CHEMISTRY

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: Biology

Graduation Requirement: Physical Lab Science

This comprehensive course gives students a solid basis to move on to future studies. The course provides an in-depth survey of all key areas, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. The course includes direct online instruction, virtual laboratories, and related assessments, used with an online problem-solving book.

EARTH SCIENCE

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: Physical Lab Science

This course provides students with a comprehensive earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of in-depth online lessons, collaborative activities, virtual laboratories, and hands-on laboratories students can conduct at home. The course prepares students for further studies in geology, meteorology, oceanography, and astronomy courses, and gives them practical experience in implementing scientific methods.

ENVIRONMENTAL SCIENCE

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: Biological or Physical Science Selective

This course surveys key topic areas, including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct five hands-on, unit-long research activities, learning that political and private decisions about the environment and the use of resources require the accurate application of scientific processes, including proper data collection and responsible conclusions.

FORENSIC SCIENCE

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: Physical Science Selective

This course surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist. Through online lessons, labs, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.

PHYSICS

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: Physical Lab Science

This course provides a comprehensive survey of all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, thermodynamics, waves, electricity, magnetism. It introduces students to modern physics topics such as quantum theory and the atomic nucleus. The course gives students a solid basis to move on to more advanced courses later in their academic careers. The program consists of online instruction, laboratories, and related assessments, plus an associated problem-solving book.

VETERINARY SCIENCE

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: Biological Science Selective

This course examines some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases affect not only the animals around us, but at times, humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues are studied and applied.

SOCIAL SCIENCES

ANTHROPOLOGY

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: Social Science Selective

This course presents a behavioral science focused on the study of humanity and culture. The course covers the foundations of anthropology's five main branches, including physical, social, linguistic, archeological, and cultural. Students are provided the opportunity to apply their observational skills to the real-life study of cultures in the United States and around the world.

ARCHAEOLOGY

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: Social Science Selective

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

AP® MACROECONOMICS

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: Social Science Selective

This course is the equivalent of an introductory college-level course. Students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. Students also examine how individuals and institutions are influenced by employment rates, government spending, inflation, taxes, and production. Students prepare for the AP® exam.

AP® MICROECONOMICS

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: Social Science Selective

This course is the equivalent of an introductory college-level course. Students explore the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students learn why the same product can cost different amounts at different stores, in different cities, and at different times. Students also learn to spot patterns in economic behavior and learn how to use them to explain buyer and seller behavior under various conditions. Lessons promote an understanding of the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in the economy. Students prepare for the AP® exam.

AP® PSYCHOLOGY

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course is the equivalent of an introductory college-level course. Students receive an overview of current psychological research methods and theories. They explore the therapies used by professional counselors and clinical psychologists, and examine the reasons for normal human reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. They study core psychological concepts, such as the brain and sensory functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Students prepare for the AP® exam.

***For the 2020-2021 school year and beyond, AP Psychology will be considered an elective credit and not a social studies credit.**

AP® U.S. GOVERNMENT AND POLITICS

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: Modern U.S. History

Graduation Requirement: Social Science Selective- U.S. History

In this course, students explore the operations and structure of the U.S. government. Students evaluate political data, hypotheses, concepts, opinions, and processes and learn how to gather data about political behavior and develop theoretical analysis of American politics. Students also build the skills they need to examine general propositions about government and politics, and to analyze specific relationships between political, social, and economic institutions. Students prepare for the AP® exam and further study in political science, law, education, business, and history.

AP® U.S. HISTORY

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: U.S. History

Students explore and analyze the economic, political, and social transformation of the United States since the time of the first European encounters. Students are asked to master not only the vast array of factual information necessary to do well on the AP® exam, but also to practice skills of critical analysis of historical information and documents. Students read primary and secondary source materials and analyze problems presented by historians to gain insight into challenges of interpretation and how historical events have shaped American society and culture.

AP® WORLD HISTORY

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: World History

This course spans the Neolithic Age to the present in a rigorous academic format organized by chronological periods and viewed through fundamental concepts and course themes. Students analyze the causes and processes of continuity and change across historical periods. Themes include human–environment interaction, cultures, expansion and conflict, political and social structures, and economic systems. In addition to mastering historical content, students cultivate historical thinking skills that involve crafting arguments based on evidence, identifying causation, comparing and supplying context for events and phenomenon, and developing historical interpretation. This course prepares students for the AP® World History exam.

CIVICS

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: Social Science Selective- U.S. History

Civics is the study of citizenship and government. This one-semester course provides students with a basic understanding of civic life, politics, and government, and a short history of government’s foundation and development in this country. Students learn how power and responsibility are shared and limited by government, the impact American politics has on world affairs, the place of law in the American constitutional system, and which rights the American government guarantees its citizens. Students also examine how the world is organized politically and how civic participation in the American political system compares to that in other societies around the world today.

CONTEMPORARY WORLD ISSUES

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: None

Graduation Requirement: Social Science Selective- U.S. History or World

In this course, students compare the geography, governments, economies, and cultures of the world. Emphasis is placed on learning about the civics, politics, economics, structures, processes and policies of the United States and then comparing them with those of the international community. Students draw upon what they know and learn about the United States and the world to analyze current events and contemporary issues. Students apply reasoning and research skills to the content throughout the course.

ECONOMICS

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: Social Science Selective

Students are introduced to the basics of economic principles, and they learn the importance of understanding different economic systems. They also investigate how to think like an economist. Students explore different economic systems, including the American free enterprise system, and analyze and interpret data to understand the laws of supply and demand. Students are also presented with economic applications in today’s world. From economics in business, money, banking, and finance, students see how economics is applied domestically and globally. Students also study how the government is involved in establishing economic stability in the American free enterprise system as well as how the U.S. economy has a global impact.

GEOGRAPHY

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: World History

This course explores world geography on a region-by-region basis and covers a broad range of geographical perspectives. Each unit covers one continent or other major geographical region of the world: North America, Central America, South America, Western Europe, Eastern Europe and Russia, East Asia, Southeast Asia and the Pacific Cultures, Africa, India, and the Middle East. Students first learn about each region's landforms, climate, and population. They then examine that region's cultural, economic, and political institutions. Each unit is presented in a parallel format to facilitate interregional comparisons. It also allows students to see the similarities and differences between the regions more clearly.

LAW AND ORDER/LEGAL STUDIES

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: Social Science Selective

This course focuses on the creation and application of laws in society. Topics include how law and ethics are intertwined, the lawmaking process, and the steps involved in the court system. In addition, students take a closer look at individual types of laws, including criminal, tort, consumer, and family law.

MODERN U.S HISTORY

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: U.S. History

This course is a full-year survey that provides students with a comprehensive view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K12's *The American Odyssey: A History of the United States*. Lessons help students organize their studies, explore topics in-depth, review in preparation for assessments, and practice historical thinking and analysis skills. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

PSYCHOLOGY

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In this one-semester course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Units include Methods of Study, Biological Basis for Behavior, Learning and Memory, Development and Individual Differences, and Psychological Disorders. *Students should demonstrate an interest and willingness to critically explore the many different areas presented in an introductory course about behavior.*

***For the 2020-2021 school year and beyond, Psychology will be considered an elective credit and not a social studies credit.**

SOCIOLOGY I

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

The world is becoming more complex. How do your beliefs, values, and behavior affect the people around you and the world in which you live? Students examine social problems in the increasingly connected world, and learn how human relationships can strongly influence and impact their lives. Exciting online video journeys to an array of areas in the sociological world are an essential component of this relevant and engaging course.

SOCIOLOGY II

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: Sociology I

Graduation Requirement: Elective

Sociology is the study of people, social life, and society. By developing a “sociological imagination,” students examine how society shapes human action and beliefs—and how, in turn, these factors reshape society itself. Fascinating online video journeys inform students and motivate them to seek more knowledge on their own.

U.S. AND GLOBAL ECONOMICS

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: Social Science Selective- World or U.S. History

In this course on economic principles, students explore choices they face as producers, consumers, investors, and taxpayers. Students apply what they learn to real-world simulation problems. Topics of study include markets from historical and contemporary perspectives; supply and demand; theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; money (what it is, how it evolved, the role of banks, investment houses, and the Federal Reserve); Keynesian economics; how capitalism functions, focusing on productivity, wages, investment, and growth; issues of capitalism such as unemployment, inflation, and the national debt; and a survey of markets in such areas as China, Europe, and the Middle East.

U.S. GOVERNMENT AND POLITICS

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: Social Science Selective- U.S. History

This course uses the perspective of political institutions to explore government history, organization, and functions. Students encounter the political culture of our country from the Declaration of Independence to the present day, gaining insight into the challenges faced by presidents, Congress members, and other political participants. The course also covers the roles of political parties, interest groups, the media, and the Supreme Court. Students learn to use primary historical documents as evidence in evaluating past events and government functions.

WORLD HISTORY

1.0 Credit/2 semesters (May be taken as semester course)

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: World History

In this comprehensive survey of world history from prehistoric to modern times, students focus in-depth on the developments and events that have shaped civilization. The course is organized chronologically and, within broad eras, regionally. Online lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Lessons and assessments complement *World History: Our Human Story*, an ebook written and published by K12. Students are challenged to consider topics in-depth as they analyze primary sources and maps, create timelines, and complete other projects—practicing historical thinking and writing skills as they explore the broad themes and big ideas of human history.

WORLD LANGUAGE

AMERICAN SIGN LANGUAGE

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: World Language

American Sign Language (ASL) is the third most commonly used language in North America. In this course, students are introduced to vocabulary and simple sentences so that they can start communicating right away. They also explore deaf culture, including social beliefs, traditions, history, values, and communities influenced by deafness.

AP® FRENCH LANGUAGE AND CULTURE (Middlebury Interactive Languages)

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: French III or equivalent language proficiency

Graduation Requirement: World Language

The AP® French Language and Culture course is an advanced language course that prepares students for the AP® French Language and Culture exam. It uses as its foundation the three modes of communication: interpersonal, interpretive, and presentational. The course is conducted almost exclusively in French and is based on the six themes required by the College Board: global challenges, science and technology, contemporary life, personal and public identities, families and communities, and beauty and aesthetics. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students should expect to listen to, read, and understand a wide variety of authentic French-language materials and sources; demonstrate proficiency in interpersonal, interpretive, and presentational communication using French; gain knowledge and understanding of the cultures of the francophone world. They will also use French to connect with other disciplines and expand knowledge in a wide variety of contexts; develop insight into the nature of the French language and its culture; and use French to participate in communities at home and around the world. The AP® French Language and Culture course is a college-level course.

Materials required: Downloadable software

AP® SPANISH LANGUAGE AND CULTURE (Middlebury Interactive Languages)

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: Spanish III or equivalent language proficiency

Graduation Requirement: World Language

The AP® Spanish Language and Culture course is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical, and communicative skills. The AP® Spanish Language and Culture course prepares students for the AP® Spanish Language and Culture exam. Its foundation is the three modes of communication (interpersonal, interpretive, and presentational) as defined in the Standards for Foreign Language Learning in the 21st 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 can share their opinions and comments on various topics and comment on other students' posts. The course also makes excellent use of the internet for updated and current material.

Materials required: Downloadable software.

CHINESE I COMPETENCY (Middlebury Interactive Languages)

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: World Language

Students begin their introduction to Chinese by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices that reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Both Chinese characters and pinyin are presented together throughout the course, and specific character practices are introduced after the first quarter. Students should expect to be actively engaged in their language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Chinese-speaking countries, and take frequent assessments where their language progression can be monitored.

Materials required: Downloadable software

CHINESE II COMPETENCY (Middlebury Interactive Languages)

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: Chinese I or equivalent language proficiency

Graduation Requirement: World Language

Students continue their study of Chinese by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices that reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Character recognition and practice are a key focus of the course and students are expected to learn several characters in each unit. However, pinyin is still presented with characters throughout the course to aid in listening and reading comprehension. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases; use a wide range of grammar patterns in their speaking and writing; participate in conversations and respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various Chinese-speaking regions; and take frequent assessments by which their language progression can be monitored.

Materials required: Downloadable software.

CHINESE III Note: This course may be offered through an outside program. Contact your school counselor for information.

Preference given to seniors needing the course to graduate.

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: Chinese II or equivalent language proficiency

Graduation Requirement: World Language

FRENCH I COMPETENCY (Middlebury Interactive Languages)

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: World Language

Students begin their introduction to French by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices that reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various French-speaking countries; and take frequent assessments where their language progression can be monitored.

Materials required: Downloadable software.

FRENCH II COMPETENCY (Middlebury Interactive Languages)

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: French I or equivalent language proficiency

Graduation Requirement: World Language

Students continue their study of French by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also are able to express themselves more meaningfully in speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices that reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases; use a wide range of grammar patterns in their speaking and writing; participate in conversations and respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various French-speaking countries; and take frequent assessments where their language progression can be monitored. By the second semester, the course is conducted almost entirely in French.

Materials required: Downloadable software.

FRENCH III COMPETENCY (Middlebury Interactive Languages)

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: French II or equivalent language proficiency

Graduation Requirement: World Language

Students further deepen their understanding of French by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in both formal and informal spoken and written contexts. Students should expect to be actively engaged in their own language learning; use correct vocabulary terms and phrases naturally; incorporate a wide range of grammar concepts consistently and correctly while speaking and writing; participate in conversations covering a wide range of topics; respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various French-speaking countries; read and analyze important pieces of literature; and take frequent assessments by which their language progression can be monitored. The course is conducted almost entirely in French.

Materials required: Downloadable software.

GERMAN I COMPETENCY (Middlebury Interactive Languages)

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: World Language

Students begin their introduction to German by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices that reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various German-speaking countries; and take frequent assessments where their language progression can be monitored.

Materials required: Downloadable software

GERMAN II COMPETENCY (Middlebury Interactive Languages)

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: German I or equivalent language proficiency

Graduation Requirement: World Language

Students continue their study of German by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices that reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases; use a wide range of grammar patterns in their speaking and writing; participate in conversations; respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various German speaking countries; and take frequent assessments by which their language progression can be monitored.

Materials required: Downloadable software

LATIN I

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: World Language

Since mastering a classical language presents different challenges from learning a spoken world language, students learn Latin through ancient, time-honored classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, provide students with a strong foundation for learning Latin. Each unit consists of a new vocabulary theme and grammar concept; reading comprehension activities; writing activities; multimedia culture, history, and mythology presentations; and interactive activities and practices that reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. Students learn ancient high classical styles of pronunciation and grammar instead of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the broadest range of periods. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; understand and analyze the cultural and historical contexts of the ancient sources they study; and take frequent assessments where their language progression can be monitored.

Materials required: Downloadable software

LATIN II

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: Latin I

Graduation Requirement: World Language

Students continue with their study of Latin through ancient, time-honored classical language approaches, which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, prepare students for a more in-depth study of Latin. Each unit consists of a new vocabulary theme and grammar concept; reading comprehension activities; writing activities; multimedia culture, history, and mythology presentations; and interactive activities and practices that reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. Students learn ancient high classical styles of pronunciation and grammar instead of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the broadest range of periods. Students should expect to be actively engaged in their own language learning; understand and use common vocabulary terms and phrases; comprehend a wide range of grammar patterns; understand and analyze the cultural and historical contexts of the ancient sources they study; and take frequent assessments where their language progression can be monitored.

Materials required: Downloadable software

SPANISH I COMPETENCY (Middlebury Interactive Languages)

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: World Language

Students begin their introduction to Spanish by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices that reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries; and take frequent assessments where their language progression can be monitored.

Materials required: Downloadable software

SPANISH II COMPETENCY (Middlebury Interactive Languages)

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: Spanish I or equivalent language proficiency

Graduation Requirement: World Language

Students continue their study of Spanish by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices that reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases; use a wide range of grammar patterns in their speaking and writing; participate in conversations and respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries; and take frequent assessments by which their language progression can be monitored. By Semester 2, the course is conducted almost entirely in Spanish.

Materials required: Downloadable software

SPANISH III COMPETENCY (Middlebury Interactive Languages)

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: Spanish II or equivalent language proficiency

Graduation Requirement: World Language

Students further deepen their understanding of Spanish by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning; use correct vocabulary terms and phrases naturally; incorporate a wide range of grammar concepts consistently and correctly while speaking and writing; participate in conversations covering a wide range of topics and respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries; read and analyze essential pieces of Hispanic literature; and take frequent assessments where their language progression can be monitored.

Materials required: Downloadable software

SPANISH IV Note: This course may be offered through an outside program. Contact your school counselor for information.

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: Spanish III or equivalent language proficiency

Graduation Requirement: World Language

APPLIED, FINE, & PERFORMING ARTS

AP® ART HISTORY

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: Fine Arts

AP® Art History introduces students to major works of art and the concepts needed to understand them. This online course fosters an in-depth, holistic understanding of the history of art from a global perspective, and builds understanding of the place of art within broader historical, cultural, religious, and political frameworks. The functions and effects of art are the main focus. This AP® Art History course is designed to be equivalent to a two-semester introductory college-level art history survey course.

ART APPRECIATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Fine Arts

This one-semester course introduces learners to the various forms of the visual arts, such as painting, sculpture, film, and more. Students learn how to look at a work of art, identify and compare key characteristics in artworks, and understand the role art has played throughout history. Through hands-on activities, virtual museum tours, discussion, and research, learners develop an overall appreciation for the art they encounter in their daily lives.

ART IN WORLD CULTURES

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Fine Arts

Students learn about some of the greatest artists while also creating art of their own, including digital art. The course explores the basic principles and elements of art, how to critique art, and how to examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art.

Materials required: Art supplies

C++ PROGRAMMING

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Programming Logic and Design

Graduation Requirement: Applied Arts

This course teaches students to use problem-solving skills involving full-code examples to demonstrate how and why to apply programming concepts while using C++. Programming exercises strengthen student understanding of program design. Students walk through the stages of input, output, problem analysis, and algorithm design to illustrate key concepts.

COMPUTER LITERACY

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Applied Arts

In this introductory course, students become familiar with the basic principles of a personal computer, including the internal hardware, operating system, and software applications. Students gain practice in using key applications, such as word processing, spreadsheet, and presentation software, as well as an understanding of social and ethical issues around the internet, information, and security. In the first part of the course, the focus is on the fundamentals: learning and using the applications, and understanding the basic and responsibilities of the software, hardware, and operating system. In the second part, the focus is on gathering and analyzing data, and using the right tools and methods to collect and present data.

DIGITAL ARTS I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Applied Arts

Students learn the elements and principles of design as well as foundational concepts of visual communication in this exploratory course. While surveying a variety of media and art, students use image editing, animation, and digital drawing to practice the art principles they've learned. They explore career opportunities in the design, production, display, and presentation of digital artwork. They respond to the artwork of others and learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.

Materials required: Downloadable software

DIGITAL ARTS II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Digital Arts I

Graduation Requirement: Applied Arts

Students build on the skills and concepts they learned in Digital Arts I as they develop their vocabulary of digital design elements. By the end of the course, they have created a collection of digital art projects for their digital design portfolio.

Materials required: Downloadable software

DIGITAL PHOTOGRAPHY I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Fine Art

This course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students study the history of photography and learn essential camera functions. They use the basic techniques of composition and camera functions to build a portfolio of images, capturing people, landscapes, close-ups, and action photographs.

Materials required: Digital camera

DIGITAL PHOTOGRAPHY II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Digital Photography I

Graduation Requirement: Fine Art

In this course, students learn about aspects of professional photography, including the ethics of the profession. They examine some of the areas that professional photographers choose to specialize in, such as wedding photography and product photography. Students also learn about some of the most respected professional photographers in history and critique photographs to better understand what creates an eye-catching picture.

Materials required: Digital camera

FASHION AND INTERIOR DESIGN

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Applied Arts

From the clothes we wear to the homes we live in, fashion and design are all around us. In this course, students who have a flair for fashion or who constantly redecorate their room find out what it is like to work in the design industry by exploring career possibilities and the background needed to pursue them. Students try their hand at designing as they learn the basics of color and design, then test their skills through hands-on projects. In addition, they develop essential communication skills that build success in any business. By the end of the course, students are well on the way to developing the portfolio needed to get started in this exciting field.

Materials required: Sewing machine and supplies

FINE ART

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: A survey course in World History is recommended as a prerequisite or corequisite, but not required

Graduation Requirement: Fine Art

This course combines art history, appreciation, and analysis while engaging students in hands-on, creative projects. Lessons introduce major periods and movements in art history while focusing on masterworks and the intellectual, technical, and creative processes behind those works. Studio lessons provide opportunities for drawing, painting, sculpting, and other creative endeavors.

Materials required: Art supplies

GAME DESIGN I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Applied Arts

Game Design I encourages students to use their creative and technical skills as they learn about the many aspects of designing games. The course explores different types of video game software and hardware, various gaming platforms, the technical skills necessary to design games, troubleshooting, internet safety techniques, and the history of gaming. Students also have the opportunity to create a plan for a 2D video game. The course is designed to help prepare students either for postsecondary education in game design or for an entry-level career.

Materials required: Downloadable software

GAME DESIGN II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Game Design I

Graduation Requirement: Applied Arts

In Game Design II, students have the opportunity to conceptualize, design, and create a video game. They explore various video game software and hardware, sharpen their coding skills, and learn about game storylines, player progression, and algorithmic decision making. Students learn to analyze player goals, player actions, rewards, and challenges, among many other gameplay components. The course helps students develop 21st-century skills involving creativity, critical thinking, communication, collaboration, and technical expertise that will put them at the forefront of a future in technology.

Materials required: Downloadable software

HTML5/CSS3 PROGRAMMING

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Applied Arts

This course is designed to teach students to build effective websites using real-world case scenarios. Each tutorial is based on a case problem that leads students through the creation of a website while they master new techniques and complex concepts. The course covers concepts such as page layout, basic graphic design, mobile design, working with tables and columns, designing forms, using multimedia, JavaScript, and exploring arrays, loops, and conditional statements.

Materials required: Downloadable software

IMAGE DESIGN AND EDITING

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Applied Arts

This introductory design course is for students who want to create compelling, professional-looking graphic designs and photos. Students learn the basics of composition, color, and layout through the use of hands-on projects that allow them to use their creativity while developing important foundational skills. They use GIMP software to create a graphic design portfolio with a wide variety of projects involving the mastery of technical topics, such as working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. The projects help students develop the skills they need to create and edit images of their own.

INTRODUCTION TO COMPUTER SCIENCE

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Applied Arts

This course provides a solid foundation using an algorithm-driven approach that is ideal for students' first course in Computer Science. Students learn about emerging topics, such as privacy, drones, cloud computing, and net. Students are also introduced to programming languages such as C++, Java, Python, C#, and Ada.

JAVA PROGRAMMING I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Introduction to Computer Science and Programming Logic and Design

Graduation Requirement: Applied Arts

Java Programming Levels I and II introduce programmers to the power of Java for developing applications as they learn the basic principles of structured and object-oriented programming. These courses incorporate Java with meaningful real-world exercises and a wealth of case problems to help students build skills critical for ongoing programming success.

Materials required: Downloadable software

JAVA PROGRAMMING II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Java Programming I

Graduation Requirement: Applied Arts

Java Programming Levels I and II introduce programmers to the power of Java for developing applications as they learn the basic principles of structured and object-oriented programming. These courses incorporate Java with meaningful real-world exercises and a wealth of case problems to help students build skills critical for ongoing programming success.

Materials required: Downloadable software

MUSIC APPRECIATION

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Fine Arts

This course introduces students to the history, theory, and genres of music. The first semester covers basic music theory concepts as well as early musical forms, classical music, patriotic and nationalistic music, and 20th century music. The second semester presents modern traditions, including American jazz, gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip hop. The course explores the history of music, from the surviving examples of rudimentary musical forms to contemporary pieces from around the world.

A student “performance practicum” is required for full credit each semester to comply with certain state standards for the arts. The performance practicum requirement can be met through participation in supervised instrumental or vocal lessons, church or community choirs, community musical performances, or any other structured program that meets at regular intervals and provides opportunities for students to build vocal and/or instrumental skills. Parents or guardians will be required to present their student’s proposed practicum to the teacher for approval and to validate their student’s regular participation in the chosen performance practicum.

Materials required: Music supplies

PROGRAMMING LOGIC AND DESIGN

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Applied Arts

This course prepares student programmers for success by teaching them the fundamental principles of developing structured program logic. This course takes a unique, language-independent approach to programming, with a distinctive emphasis on modern conventions, and prepares students for all programming situations with introductions to object-oriented concepts, UML diagrams, and databases.

PYTHON PROGRAMMING

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Applied Arts

This course presents essential computer science topics, while also instructing on the Python programming language. Python is easy to learn and scales well to advanced applications. The course is engaging and brings the relevance of the concepts and applications from the text to the real world. Hands-on labs teach students to write and run code in an Integrated Development Environment (IDE) from their web browser. A chatbot provides hints and feedback when students get stuck, which encourages persistence through on-demand assistance.

Materials required: Downloadable software

WEB DESIGN

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Applied Arts

This course provides a comprehensive introduction to the essentials of web design, from planning page layouts to publishing a complete site to the web. Students learn how to use HTML to design their own web pages. The course covers basic HTML tags for formatting text as well as more advanced tags. Through real-world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools.

Materials required: Downloadable software

2D ANIMATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Applied Arts

In the 2D animation course, students learn to create movement in a two-dimensional artistic space. They learn to conceptualize and bring their animation dreams to life using various software and design programs. During the course, students design, define, and complete a variety of digital design projects, including creating a website. Learning about 2D Animation could be a first step toward a career in technology and animation.

3D MODELING

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Applied Arts

This course provides a solid introduction to the fast-growing fields of technology and design, including virtual reality, video game design, marketing, television and motion pictures, and digital imaging. In 3D Modeling, students gain a deeper understanding of graphic design and illustration as they use 3D animation software to create virtual three-dimensional design projects. The course helps students develop the drawing, photography, and 3D construction skills needed to navigate within a 3D digital modeling workspace while rendering 3D models.

HEALTH & PHYSICAL EDUCATION

FAMILY AND CONSUMER SCIENCE

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Health

In this course, students develop skills and knowledge to help them transition into adult roles within the family. They learn to make wise consumer choices, prepare nutritious meals, contribute effectively as part of a team, manage a household budget, and balance work and family roles. They gain an appreciation for each family member's responsibilities and contributions to the well being of the family and the community throughout their lifespan.

LIFE SKILLS

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Health

This one-semester elective is designed to increase students' knowledge of and ability to use the skills necessary for everyday living. Life Skills emphasizes defining personal values, goal-setting and planning, and solving problems. Instructional material focuses on dealing with media and peer pressure, communication and relationships, working with others, avoiding and/or resolving conflict, decision making, wellness and personal safety, aspects of good citizenship, environmental awareness, and how students can contribute to their community. The course is organized in six units: Course Introduction; Thinking About Yourself; Thinking for Yourself; Taking Care of Yourself; Caring for Your Relationships; and Caring About Your World.

NUTRITION AND WELLNESS

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: PE or Health

This one-semester elective course provides students with an overview of sound nutrition principles that are necessary for physical and mental wellness and a long, healthy life. Instructional materials include discussions of digestion, basic nutrients, weight management, sports and fitness, and life-span nutrition. The course emphasizes an understanding of today's food and eating trends and gives students the capacity to intelligently evaluate all available sources of nutrition information and make informed decisions. The course is organized into six units: Course Introduction; Wellness and Food Choices in Today's World; Digestion and Major Nutrients; Body Size and Weight Management; Physical Fitness, Sports Nutrition, and Stress; and Life Cycle Nutrition.

PERSONAL FITNESS I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: PE

In this course, ninth grade students learn and practice principles of fitness, wellness, and health to develop habits of healthy living. Guided by their textbook, *Fitness for Life*, students explore topics that include the physiology of diet and exercise, biomechanics, and team dynamics. They apply their knowledge in daily fitness activities and assignments that include personalized exercise and diet plans that develop students' self-assessment skills. The varied activities also reinforce how physical fitness catalyzes emotional and mental well-being, self-esteem, and communication skills.

Materials required: Printed items (book, workbook, etc.)

PERSONAL FITNESS II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Personal Fitness I

Graduation Requirement: PE

In this course, high school students study ways to get and stay fit through moderate and vigorous activities, sports, and recreation. They study the components and benefits of fitness. Students also study self-management, stress management, and lifestyle practices to achieve and maintain fitness. In addition to their reading lessons, students complete a variety of activities, assignments, quizzes, and tests to assess their understanding of the content studied.

Materials required: Printed items (book, workbook, etc.)

PHYSICAL EDUCATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: PE

This pass/fail course combines online instructional guidance with student participation in weekly cardiovascular, aerobic, muscle-toning, and other activities. Students fulfill course requirements by keeping weekly logs of their physical activity. The course promotes the value of lifetime physical activity and includes instruction in injury prevention, nutrition and diet, and stress management. Students may enroll in the course for either one or two semesters, and repeat for further semesters as needed to fulfill state requirements.

SKILLS FOR HEALTH

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Health

This course focuses on important skills and knowledge in nutrition; physical activity; the dangers of substance use and abuse; injury prevention and safety; growth and development; and resources for personal health, environmental conservation, and community health. The curriculum is designed around topics and situations that engage student discussion and motivate students to analyze internal and external influences on their health-related decisions. The course helps students build the skills they need to protect, enhance, and promote their own health and the health of others.

CAREER EXPLORATION ELECTIVES - GENERAL

ADMINISTRATIVE PROFESSIONAL

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course prepares students for employment in today's global environment, which is increasingly dynamic and digital. This course emphasizes the importance of understanding employers' expectations; building confidence; and developing the knowledge and skills necessary to become strong, competent employees and leaders. Using interactive and engaging content, students learn skills needed in the workplace, such as being professional, working ethically, working as a team, and developing customer focus. In addition, students learn key communication skills, records management, and how to prepare for successful employment.

CAREER PLANNING

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

Students use an informative, interactive process to explore career and life options in this one-semester elective. They begin with a thorough examination of their interests, aptitudes, achievements, and personality styles. Instructional material then helps them match job market information, interview techniques, training requirements, and educational paths to potential careers that suit their strengths and personal priorities. Successfully completing this course gives students the ability to identify and describe their interests, aptitudes, and lifestyle goals; locate and evaluate information about different careers; identify the skills and knowledge needed for careers of interest and how to obtain them; and create an entrepreneurial business plan.

CAREER EXPLORATION ELECTIVES - AGRICULTURE

AGRICULTURAL MECHANICS 1

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course provides a thorough introduction to agricultural mechanics, covering fundamental mechanical and engineering theory, common tools and materials, and a wide range of practical applications. The course also covers essential topics such as career opportunities, shop orientation and procedures, woodworking and metalworking, tool fitting, project planning, cutting and welding, paints and paint application, power mechanics, electrical wiring, plumbing, hydraulics, concrete and masonry, and agricultural structures.

AGRICULTURAL MECHANICS 2

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Agricultural Mechanics 1

Graduation Requirement: Elective

In this course, students learn about portable power tools, woodworking with power machines, adjusting and maintaining power woodworking equipment, metalworking with power machines, sketching and drawing projects, figuring a bill of materials, selecting, planning, and building a project, repairing and reconditioning tools, sharpening tools, using gas welding equipment, cutting with oxyfuels and other gases, brazing and welding with oxyacetylene, selecting and using arc welding equipment, and arc welding mild steel and GMAW/ GTAW welding.

AGRICULTURAL MECHANICS 3

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: Agricultural Mechanics 2

Graduation Requirement: Elective

The third semester of Agricultural Mechanics provides a thorough introduction to agricultural mechanics, covering fundamental mechanical and engineering theory, standard tools and materials, and a wide range of practical applications. The course also covers essential topics such as career opportunities, shop orientation and procedures, woodworking and metalworking, toolfitting, project planning, cutting and welding, paints and paint application, power mechanics, electrical wiring, plumbing, hydraulics, concrete and masonry, and agricultural structures.

AGRISCIENCE II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Introduction to Agriscience

Graduation Requirement: Elective

In Agriscience II, students build on their existing knowledge of plant and animal science and delve deeper into critical areas such as soil science and weed management. Students also explore research on plant and animal diseases, as well as the insects and other pests that can impact agricultural enterprises and natural resources.

Materials required: Science lab materials

INTRODUCTION TO AGRISCIENCE

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

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

MODERN LIVESTOCK & POULTRY PRODUCTION I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course covers basic animal science and livestock industry information as well as current issues in animal agriculture. The course includes information students should know about livestock and poultry animals for classroom study and beyond. The course is designed to provide students with a solid understanding of the anatomy, physiology, nutrition, feeding, and reproduction of various livestock and poultry breeds.

MODERN LIVESTOCK & POULTRY PRODUCTION II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Modern Livestock & Poultry Production I

Graduation Requirement: Elective

The second semester of Livestock and Poultry Production covers basic animal science and livestock industry information as well as current issues in animal agriculture. The course includes information students should know about livestock and poultry animals for classroom study and beyond. The course is designed to provide students with a solid understanding of the anatomy, physiology, nutrition, feeding, and reproduction of various livestock and poultry breeds.

MODERN LIVESTOCK & POULTRY PRODUCTION III

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: Modern Livestock & Poultry Production II

Graduation Requirement: Elective

The third semester of Livestock and Poultry Production covers basic animal science and livestock industry information as well as current issues in animal agriculture. The course includes information students need to know about livestock and poultry animals for classroom study and beyond. The course is designed to provide students with a solid understanding of the anatomy, physiology, nutrition, feeding, and reproduction of various livestock and poultry breeds.

PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course teaches students about the steps food takes from the farm to the table. Students learn about the history of agriculture through animal husbandry, plant science, and managing use of natural resources. The course provides students with a broad understanding of the subject matter while preparing them for hands-on learning to participate in Future Farmers of America and supervised agricultural experiences.

CAREER EXPLORATION ELECTIVES - BUSINESS

ADVERTISING AND SALES PROMOTION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Marketing 1

Graduation Requirement: Elective

This course exposes students to methods and techniques businesses use to advertise their products and services. Topics include financing promotional activities, technical skills used by marketers, the components of a compelling promotional mix, and personal selling techniques. In addition to key concepts of advertising, students take a closer look at careers in advertising, the skills needed to work in this industry, and the role of advertising in the 21st century. To apply the knowledge they have gained, students complete a capstone project in which they develop a promotional plan.

BUSINESS AND IT EXPLORATIONS

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In this course students explore basic concepts in the broad areas of business and information technology, as well as career options in each area.

- **Business:** How do business ideas become businesses? How are products marketed? How do you know if a business is making or losing money? These are among the questions that students explore in the business portion of this course. In addition to studying concepts of entrepreneurship, accounting and marketing, students explore these concepts on scales that range from a single person to nations.
- **Information Technology:** How do computers affect communication? How do computers work? How do you make a website? Information technology provides the answers to questions such as these. This course provides a comprehensive introduction to the essentials of web design, from planning page layouts to publishing a complete site to the web. Students learn how to use HTML to design their own web pages. The course covers basic HTML tags for formatting text, as well as more advanced tags. Through real-world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools.

BUSINESS AND MARKETING EXPLORATIONS

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course introduces students to business careers so that they can better assess which pathway to pursue. Students explore basic concepts in the broad areas of business and marketing, as well as career options in each area. Students study the concepts of marketing, financial management, and human resource management, in addition to other common business-related functions. Students complete projects to develop a deeper understanding of the roles these business functions play.

BUSINESS COMMUNICATIONS

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In this course, students learn about communicating in the digital-age workplace, the importance of planning business messages, how to organize and draft business messages, how to revise business messages, short workplace messages and digital media positive messaging, negative messaging, persuasive messaging, how to create informal reports, and how to create proposals and formal reports. They also learn about the importance of professionalism at work, including business etiquette, ethics, teamwork, and meetings. Students learn how to prepare business presentations, how to conduct a job search and prepare a resume in the digital age, and how to prepare for an interview and follow up afterwards.

BUSINESS INFORMATION MANAGEMENT I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course is designed to enable students to develop information management skills that can be used in careers in business organizations. The course covers in-depth computing technologies such as working with documents, spreadsheets, presentations, databases, email, and scheduling software. In addition, the course covers essential skills such as written communication, verbal communication, problem solving, teamwork, and professionalism.

BUSINESS INFORMATION MANAGEMENT II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Business Information Management I

Graduation Requirement: Elective

In the second semester, students continue their exploration of computing technologies such as working with documents, spreadsheets, presentations, databases, email, and scheduling software. In addition, the course covers important skills such as written communication, verbal communication, problem solving, teamwork, and professionalism.

CONSUMER BEHAVIOR

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course draws key concepts from marketing, psychology, sociology, and anthropology to present a strong foundation and highly practical focus on real-world applications for today's global business environment. This course incorporates current business practices, including extensive coverage of social media influences, increased consumer power, and emerging neuroscience findings. Students also examine controversies in consumer decision-making involving money, goals, emotions, charity, health, materialism, and sustainability. This edition increases its emphasis on social responsibility and ethics in marketing, examining both the dark side and constructive possibilities.

ENTREPRENEURSHIP 1

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to come up with new business ideas, attract investors, market their business, and manage expenses.

ENTREPRENEURSHIP 2

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Entrepreneurship 1

Graduation Requirement: Elective

Students build on the business concepts they learned in Entrepreneurship I. Students continue to explore the different functions of business while refining their technology and communication skills in speaking, writing, networking, negotiating, and listening. The purpose of this course is to prepare students to launch a small business venture.

GREEN DESIGN AND TECHNOLOGY

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course examines the impact of human activities on sustainability while exploring the basic principles and technologies that support sustainable design. Students learn about the potential for emerging energy technologies such as water, wind, and solar power. They find out how today's businesses are adapting to the increased demand for sustainable products and services. In this course, students develop a comprehensive understanding of this fast-growing field.

INTERNATIONAL BUSINESS

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

From geography to culture, global business is an exciting topic in the business community today. This course helps students develop the appreciation, knowledge, skills, and abilities needed to live and work in the global marketplace. It takes a global view of business, investigating why and how companies go international, and how they are more interconnected. Students gain an understanding of how economic, social, cultural, political, and legal factors influence both domestic and cross-border business. Business structures, global entrepreneurship, business management, marketing, and the challenges of managing international organizations are also explored. The course helps students cultivate a mindfulness of how history, geography, language, cultural studies, research skills, and continuing education are important in 21st-century business activities.

MARKETING 1

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

Students discover what it takes to market a product or service in today's fast-paced business environment. They learn the fundamentals of marketing using real-world business examples. They also explore buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management.

MARKETING 2

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Marketing 1

Graduation Requirement: Elective

Students build on the skills and concepts learned in Marketing 1 to develop a basic understanding of marketing principles and techniques. The course encourages students to think like an entrepreneur and begin preparing for a career in business and marketing. By the end of the course, students will understand what it takes to start a small business venture.

PERSONAL FINANCE

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Marketing 1

Graduation Requirement: Elective

In this introductory finance course, students learn basic principles of economics and best practices for managing their finances. Students learn core skills in creating budgets, developing long-term financial plans to meet their goals, and making responsible choices about income and expenses. They gain a deeper knowledge of capitalism and other systems to better understand their role in society's economy.

PRINCIPLES OF BUSINESS I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course provides instruction in business concepts and skills students need in today's competitive environment. This course offers extensive coverage in major business concepts, such as finance, marketing, operations, and management. Students gain valuable information and skills for the workplace, as well as preparation for success in competitive events, such as DECA, FBLA, and BPA.

PRINCIPLES OF BUSINESS II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Principles of Business I

Graduation Requirement: Elective

The second semester of Principles of Business continues instruction in business concepts and skills students need in today's competitive environment. This course offers extensive coverage in major business concepts, such as finance, marketing, operations, and management. Students gain valuable information and skills for the workplace, as well as preparation for success in competitive events, such as DECA, FBLA, and BPA.

SPORTS AND ENTERTAINMENT MARKETING

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In this course, students have the opportunity to explore basic marketing principles and delve deeper into the multibillion-dollar sports and entertainment marketing industry. Students learn how professional athletes, sports teams, and well-known entertainers are marketed and how some of them become billionaires as a result. For students who have wondered about how things work behind the scenes of a major sporting event, like the Super Bowl—or entertained the idea of playing a role in such an event—this course introduces the fundamentals of such a career.

CAREER EXPLORATION ELECTIVES - COMPUTER TECHNOLOGY

A+ COMPUTER MANAGEMENT I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

A+ Computer Management Levels I and II provide a comprehensive introduction to managing and maintaining computer hardware and software. The course closely integrates the CompTIA A+ Exam objectives to prepare students for the 220-801 and 220-802 certification exams. Students learn about current technology, techniques, and industry standards in the dynamic, fast-paced field of PC repair. This course prepares students for success as a professional PC repair technician.

A+ COMPUTER MANAGEMENT II WITH A+ CERTIFICATION PREPARATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: A+ Computer Management

Graduation Requirement: Elective

A+ Computer Management Levels I and II provide a comprehensive introduction to managing and maintaining computer hardware and software. The course closely integrates the CompTIA A+ Exam objectives to prepare students for the 220-801 and 220-802 certification exams. Students learn about current technology, techniques, and industry standards in the dynamic, fast-paced field of PC repair. This course prepares students for success as a professional PC repair technician.

ADOBE DREAMWEAVER® WITH ADOBE CERTIFICATION PREPARATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course helps students master the industry-standard web development software by emphasizing all aspects of Dreamweaver, such as its interface, features, and functionality. The course includes studies to help students hone their skills and appreciate their professional relevance. The course explores cutting-edge web standards and design trends that can serve them well throughout their careers. At the end of this course, students will be prepared for the Adobe Certified Associate certification exam.

Materials required: Adobe Dreamweaver is required for this course. Students and teachers can purchase an educational version of Creative Cloud (which includes Photoshop, Illustrator, InDesign, and Dreamweaver) for \$19.99/mo here: <https://www.adobe.com/creativecloud/buy/students/checkout.html>

ADOBE ILLUSTRATOR® WITH ADOBE CERTIFICATION PREPARATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course provides students in-depth exploration in all areas of Adobe Illustrator. Beginning with fundamental concepts and progressing to the software's full set of features, this course allows students to build a portfolio by completing projects that explore and express their unique creative talents. At the end of this course, students will be prepared for the Adobe Certified Associate certification exam.

Materials required: Adobe Dreamweaver is required for this course. Students and teachers can purchase an educational version of Creative Cloud (which includes Photoshop, Illustrator, InDesign, and Dreamweaver) for \$19.99/mo here: <https://www.adobe.com/creativecloud/buy/students/checkout.html>

ADOBE INDESIGN® WITH ADOBE CERTIFICATION PREPARATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course provides students with an in-depth exploration of Adobe InDesign, the industry standard for page layout software. This course covers fundamental concepts, starting with the workspace, and proceeds logically and intuitively to more advanced topics. Students learn how to work in InDesign using either Mac or PC platforms, and the course includes extensive coverage of Creative Cloud features. At the end of this course, students will be prepared for the Adobe Certified Associate certification exam.

Materials required: Adobe Dreamweaver is required for this course. Students and teachers can purchase an educational version of Creative Cloud (which includes Photoshop, Illustrator, InDesign, and Dreamweaver) for \$19.99/mo here: <https://www.adobe.com/creativecloud/buy/students/checkout.html>

ADOBE PHOTOSHOP® WITH ADOBE CERTIFICATION PREPARATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course provides a solid foundation for students to learn cutting edge technology for sophisticated digital editing. Students progress from basic to advanced Photoshop techniques and learn not only the how but also the why behind each Photoshop tool to help students excel at design as well as master the software. At the end of this course, students will be prepared for the Adobe Certified Associate certification exam.

Materials required: Adobe Dreamweaver is required for this course. Students and teachers can purchase an educational version of Creative Cloud (which includes Photoshop, Illustrator, InDesign, and Dreamweaver) for \$19.99/mo here: <https://www.adobe.com/creativecloud/buy/students/checkout.html>

IT EXPLORATIONS

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course is an exploration of the information technology career pathways. Students are introduced to information technology careers so that they can better assess which pathway to pursue. In this course, students explore basic concepts in the broad areas of information technology, as well as career options in each area. Students study the concepts of networking information support, web and digital communications, and programming and software development.

NETWORK+ GUIDE TO NETWORKS I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: A+ Computer Management I

Graduation Requirement: Elective

Network+ Guide to Networks Levels I and II give students the technical skills and industry know-how to begin an exciting career installing, configuring, and troubleshooting computer networks. The course prepares students for success on CompTIA's Network+ N10-006 certification exam. Students explore on-the-job stories, application activities, and hands-on projects to develop real-world problem-solving skills.

NETWORK + GUIDE TO NETWORKS II WITH NETWORK+ CERTIFICATION PREPARATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: A+ Computer Management I and Network+ Guide to Networks I

Graduation Requirement: Elective

Network+ Guide to Networks Levels I and II give students the technical skills and industry know-how to begin an exciting career installing, configuring, and troubleshooting computer networks. The course prepares students for success on CompTIA's Network+ N10-006 certification exam. Students explore on-the-job stories, application activities, and hands-on projects to develop real-world problem-solving skills.

SECURITY+ I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: A+ Computer Management I and Network+ Guide to Networks I

Graduation Requirement: Elective

This course covers the essentials of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography, mobile device security, and virtualization. The use of case studies allows students to explore real-world security scenarios and apply what they have learned.

SECURITY+ II WITH SECURITY + CERTIFICATION PREPARATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: A+ Computer Management I and Network+ Guide to Networks I, and Security+ I

Graduation Requirement: Elective

This course covers the essentials of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography, mobile device security, and virtualization. The use of case studies allows students to explore real-world security scenarios and apply what they have learned.

MICROSOFT ACCESS® WITH CERTIFICATION PREPARATION 2016

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

Using a project-based approach, students are introduced to Microsoft® Access®. This course walks students through basic to advanced features by experimenting with database creation. Types of activities include: creating databases, creating a query, creating a form, creating tables, creating reports, and creating macros. Students work through these hands-on projects to master skills in commonly used database design processes.

Materials required: Microsoft Office is required for this course. Students can get an educational version for free at this link as long as they use a valid school email address:

<https://products.office.com/en-us/student/office-in-education>

MICROSOFT EXCEL® WITH CERTIFICATION PREPARATION 2016

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

Using a project-based approach, students are introduced to Microsoft® Excel®. This course walks students through basic to advanced features by experimenting with spreadsheet creation. Types of activities include: creating worksheets, charts, formulas, functions, what-if analysis, and financial functions. Students work through these hands-on projects to master skills in commonly used features of spreadsheets.

Materials required: Microsoft Office is required for this course. Students can get an educational version for free at this link as long as they use a valid school email address:

<https://products.office.com/en-us/student/office-in-education>

MICROSOFT POWERPOINT® WITH CERTIFICATION PREPARATION 2016

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

Using a project-based approach, students are introduced to Microsoft® PowerPoint®. This course walks students through basic to advanced features by experimenting with presentation creation. Types of activities include creating presentations that have text, images, sound, animation, and transition. Students work through these hands-on projects to master skills commonly used in presentation software.

Materials required: Microsoft Office is required for this course. Students can get an educational version for free at this link as long as they use a valid school email address:

<https://products.office.com/en-us/student/office-in-education>

MICROSOFT WORD® WITH CERTIFICATION PREPARATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

Using a project-based approach, students are introduced to Microsoft® Word®. This course walks students through basic to advanced features by experimenting with document creation. Forms of documents created include research papers, business letters, resumes, form letters, and mailing labels. Students work through these hands-on projects to hone skills in formatting, page layout, macro creation, and a wide variety of commonly used word processing tools.

Materials required: Microsoft Office is required for this course. Students can get an educational version for free at this link as long as they use a valid school email address:

<https://products.office.com/en-us/student/office-in-education>

CAREER EXPLORATION ELECTIVES - CRIMINAL JUSTICE

CAREERS IN CRIMINAL JUSTICE

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In this course, students explore different areas of the criminal justice system, including the trial process, the juvenile justice system, and the correctional system. Students examine careers in each area and learn about the expectations and training required for various career options in the criminal justice field.

CRIMINOLOGY

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course introduces students to the field of criminology, the study of crime. Students look at possible explanations for crime from psychological, biological, and sociological perspectives; explore the categories and social consequences of crime; and investigate how the criminal justice system handles criminals and their misdeeds. The course explores some key questions: Why do some individuals commit crimes while others do not? What aspects of culture and society promote crime? Why are different punishments given for the same crime? What factors—from arrest to punishment—help shape the criminal case process?

PRINCIPLES OF PUBLIC SERVICE: TO SERVE AND PROTECT

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course explores some common characteristics of careers in public service. Topics include an exploration of careers in public service, the role of government in public service, the importance of teamwork, effective leadership, and how rules and regulations are used to check government and individual conduct. In addition, students take a closer look at the communications, health, public safety, education, and social services sectors of public service.

CAREER EXPLORATION ELECTIVES- CULINARY & HOSPITALITY

FOOD PRODUCTION I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course explores the foundations of the food industry, from nutrition and chemistry to processing and safety, and delves into some of the most pressing foodborne issues of our day. Discussions of current topics and trends center on genetically engineered foods, environmental concerns and sustainability, food needs of the world, the impacts of diet on health, and more.

FOOD PRODUCTION II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Food Production I

Graduation Requirement: Elective

This is the second semester of Food Production. This course explores the foundations of the food industry, from nutrition and chemistry to processing and safety, and delves into some of the most pressing foodborne issues of our day. Discussions of current topics and trends center on genetically engineered foods, environmental concerns and sustainability, food needs of the world, the impacts of food on health, and more.

HOSPITALITY AND TOURISM

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course introduces the hospitality and tourism industry, including hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other areas. Students learn about key hospitality issues, the development and management of tourist locations, event planning, marketing, and environmental issues related to leisure and travel. The course also examines some current and future trends in the field.

INTRODUCTION TO CULINARY ARTS

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This introductory course provides students with basic cooking and knife skills while preparing them for entry into the culinary world. Students discover the history of food culture, food service, and global cuisines while learning about food science principles and preservation. The course also covers the professional, communication, leadership, and teamwork skills crucial to a career in the culinary arts.

INTRODUCTION TO RESTAURANT MANAGEMENT

0.5 Credit/1 semester

Grade 9-12

Prerequisite: None

Graduation Requirement: Elective

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

CAREER EXPLORATION ELECTIVES- EDUCATION

EARLY CHILDHOOD EDUCATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In this course, students learn how to create fun and educational environments for children; how to keep the environment safe for children; and how to encourage the health and well-being of infants, toddlers, and school-aged children.

INTRODUCTION TO TEACHING

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course exposes students to the realities of teaching while inspiring and welcoming them to a rewarding, high-impact career. Students reflect on the satisfaction and problems of teaching. Course content includes a balanced look at accountability issues such as standards, high-stakes testing, and reform. Other topics include technology, cheating, bullying, sexual harassment and homophobia, diversity, vouchers, and legal issues.

UNDERSTANDING CHILD DEVELOPMENT

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course introduces students to the unique qualities of young children from infants to age eight. It demonstrates how to work with each child in ways that correspond with their developmental level, and their social and cultural environment. The course includes learning theories and research as well as information about the importance of play and technology in a young child's learning process. Other topics covered include readiness, assessment, working with children and families from diverse cultures, working with children with special needs, and the early stages of reading, writing, and general cognitive development.

CAREER EXPLORATION ELECTIVES- ENGINEERING

ENGINEERING DRAWING AND DESIGN I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In this course, students learn about actual product design through all phases from concept through manufacturing, marketing, and distribution. Students learn how engineering design practices improve output quality and how to use management methods to identify the causes of defects, remove them, and minimize manufacturing variables.

ENGINEERING DRAWING AND DESIGN II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Engineering Drawing and Design I

Graduation Requirement: Elective

In the second semester of Engineering Drawing and Design, students continue to learn about actual product design through all phases from concept through manufacturing, marketing, and distribution. Students learn how engineering design practices improve output quality and how to use management methods to identify the causes of defects, remove them, and minimize manufacturing variables.

ENGINEERING EXPLORATIONS

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Engineering Drawing and Design I

Graduation Requirement: Elective

This course guides students through an investigation of engineering careers. Students are introduced to the basics of engineering, learn how to turn problems into ideas, and develop a basic understanding of civil, mechanical, chemical, and biological engineering.

ENGINEERING FUNDAMENTALS I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Engineering Drawing and Design I

Graduation Requirement: Elective

This course is designed to give students strong problem-solving skills and a solid foundation in fundamental principles they will need to become analytical, detail-oriented, and innovative engineers. The course begins with an overview of what engineers do and gives students an inside glimpse at the various areas of specialization, and a straightforward look at what it takes to succeed. It then covers the basic physical concepts and laws that students will encounter on the job. The course also includes professional profiles that highlight the work of practicing engineers from around the globe. Throughout, the course demonstrates how engineers apply physical and chemical laws and principles, as well as mathematics, to design, test, and supervise the production of millions of parts, products, and services that people use every day.

ENGINEERING FUNDAMENTALS II

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: Engineering Fundamentals I

Graduation Requirement: Elective

The second semester of Engineering Fundamentals is designed to give students strong problem-solving skills and a solid foundation in fundamental principles they will need to become analytical, detail-oriented, and creative engineers. The course begins with an overview of what engineers do, an inside glimpse of the various areas of specialization, and a straightforward look at what it takes to be successful in engineering. It then covers the basic physical concepts and laws that students will encounter on the job. The course also includes professional profiles that highlight the work of practicing engineers from around the globe. Throughout, the course demonstrates how engineers apply physical and chemical laws and principles—as well as mathematics— to design, test, and supervise the production of millions of parts, products, and services that people use every day.

INTRODUCTION TO MECHANICAL ENGINEERING

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course introduces students to the field of mechanical engineering and helps them develop an appreciation for how engineers design hardware that builds and improves societies around the world. The course covers topics, such as technical problem-solving skills, design, engineering analysis, and modern technology, to provide a solid mechanical engineering foundation needed for future success in the field.

CAREER EXPLORATION ELECTIVES- HEALTHCARE

DENTAL ASSISTING I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course teaches basic and advanced Dental Assisting skills. Students learn about leading dental practices/procedures, equipment, and patient safety standards. Students engage in dental assisting activities such as dental charting, tray setup, radiograph mounting, pathology identification, and taking vital signs.

DENTAL ASSISTING II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Dental Assisting I

Graduation Requirement: Elective

This is the second semester of the Dental Assisting series. In this course, students continue to learn basic and advanced dental assisting skills. Students learn about leading dental practices/procedures, equipment, and patient safety standards. Students engage in dental assisting activities such as dental charting, tray setup, radiograph mounting, pathology identification, and taking vital signs.

DENTAL ASSISTING III

0.5 Credit/1 semester

Grade 10, 11, 12

Prerequisite: Dental Assisting II

Graduation Requirement: Elective

This is the third semester of the Dental Assisting series. In this course, students continue to learn basic and advanced dental assisting skills. Students learn about leading dental practices/procedures, equipment, and patient safety standards. Students engage in dental assisting activities such as dental charting, tray setup, radiograph mounting, pathology identification, and taking vital signs.

ESSENTIALS OF HEALTH INFORMATION MANAGEMENT

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In the age of the electronic health records, staying on top of the latest trends in technology and federal legislation is a must for today's healthcare professionals. This course is mapped to the latest CAHIIM domains and standards, and it includes new coverage of e-HIM, Electronic Health Records, data integrity and security, ICD-10-CM implementation, HIPAA, and more.

HEALTHCARE EXPLORATIONS

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course is an exploration of the healthcare career pathways. Students are introduced to healthcare careers so that they can better assess which pathway to pursue. In this course, students explore basic concepts in the broad areas of healthcare and career options in each area. Students study the concepts of disease prevention, personal health management, and social work, in addition to other common health-related functions. Students complete projects to develop a deeper understanding of the roles these healthcare functions play.

HEALTH SCIENCE I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

HEALTH SCIENCE II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Health Science I

Graduation Requirement: Elective

In this course, students learn more about what it takes to be a successful health science professional, including how to communicate with patients. Students explore the rights and responsibilities of both patients and health sciences professionals in patient care, and learn more about how to promote wellness among patients and health care staff. Finally, students learn more about safety in health sciences settings and the challenges and procedures of emergency care, infection control, and blood-borne pathogens.

MEDICAL ASSISTANT I

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: Medical Terminology 1, and Anatomy and Physiology (Levels I and II)

Graduation Requirement: Elective

Medical Assistant Levels I–III help students develop the knowledge base, skills, and behaviors that entry-level medical assistants need to succeed. Students are introduced to anatomy and physiology, diagnostic tests, diseases and disorders, treatments, and nutrition. They also examine personal growth topics such as professionalism, teamwork, and time management. They learn key functions of medical assistants, such as business communications, patient record maintenance, medical insurance and coding, billing, clinical and laboratory procedures, and specialty examinations and procedures.

MEDICAL ASSISTANT II

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: Medical Terminology 1, Anatomy and Physiology (Levels I and II), and Medical Assistant I

Graduation Requirement: Elective

Medical Assistant Levels I-III help students develop the knowledge base, skills, and behaviors that entry-level medical assistants need to succeed. Students are introduced to anatomy and physiology, diagnostic tests, diseases and disorders, treatments, and nutrition. They also examine personal growth topics such as professionalism, teamwork, and time management. They learn key functions of medical assistants, such as business communications, patient record maintenance, medical insurance and coding, billing, clinical and laboratory procedures, and specialty examinations and procedures.

MEDICAL ASSISTANT III WITH CERTIFIED MEDICAL ASSISTANT CERTIFICATION PREPARATION

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: Medical Terminology 1, Anatomy and Physiology (Levels I and II), and Medical Assistant II

Graduation Requirement: Elective

Medical Assistant Levels I-III help students develop the knowledge base, skills, and behaviors that entry-level medical assistants need to succeed. Students are introduced to anatomy and physiology, diagnostic tests, diseases and disorders, treatments, and nutrition. They also examine personal growth topics such as professionalism, teamwork, and time management. They learn key functions of medical assistants, such as business communications, patient record maintenance, medical insurance and coding, billing, clinical and laboratory procedures, and specialty examinations and procedures.

This course includes certification exam preparation as indicated by the course title. The course can be taken without labs and will prepare students for the written portion of the exam. Course labs require access to a clinical setting to complete hands-on activities (materials and instruction not provided by Fuel Education). Video tutorials are included in the course labs to provide exposure to skills in addition to hands-on practice. Schools adopting the Career Readiness Pathways will want to establish local solutions for providing students with access to equipment, lab settings and internships, as needed. Practical hour and skill requirements for certifications vary by state; Fuel Education does not provide arrangements for students to complete hands-on requirements.

MEDICAL CODING I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This is the first semester of a two-semester course that addresses the latest updates on ICD-10-CM, ICD-10-PCS, CPT®, and HCPCS Level II coding sets, conventions, and guidelines. Students begin with diagnosis coding, then move to more in-depth instruction on coding procedures and services. Extensive exercises, review, coding case studies, and study checklists prepare students for earning coding credentials.

MEDICAL CODING II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Medical Coding I

Graduation Requirement: Elective

This is the second semester of a two-semester course that continues to address the latest updates on ICD- 10-CM, ICD-10-PCS, CPT®, and HCPCS Level II coding sets, conventions, and guidelines. Students begin with diagnosis coding, then move to more in-depth instruction on coding procedures and services. Extensive exercises, review, coding case studies, and study checklists prepare students for earning coding credentials.

MEDICAL TERMINOLOGY I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course simplifies the process of memorizing complex medical terminology by focusing on the important word parts—common prefixes, suffixes, and root words—that provide a foundation for learning hundreds of medical terms. Organized by body systems, the course follows a logical flow of information—an overview of the body system’s structures and functions—a summary of applicable medical specialties; and ultimately, pathology, diagnostic, and treatment procedures.

MEDICAL TRANSCRIPTION I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

Using a simulation approach, students gain a working knowledge of the medical reports most commonly used in both inpatient and outpatient care settings. Students transcribe real medical reports including comprehensive inpatient and outpatient case studies and clinical records. The course covers proper formatting, grammar, and style following AHDI’s Book of Style.

MEDICAL TRANSCRIPTION II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Medical Transcription I

Graduation Requirement: Elective

In the second semester of Medical Transcription, the course continues using a simulation approach so students gain a working knowledge of the medical reports most commonly used in both inpatient and outpatient care settings. Students transcribe real medical reports, including comprehensive inpatient and outpatient case studies and clinical records. The course covers proper formatting, grammar, and style per AHDI’s Book of Style.

NURSING ASSISTANT I

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: Medical Terminology 1, and Anatomy and Physiology (Levels I and II)

Graduation Requirement: Elective

Nursing Assistant Levels I–III are designed to prepare students for meaningful careers in acute care, long-term care, and home health. Students learn more than 150 procedures, including key skills in patient handling and transfers, wound care, communication, safety, and record keeping. Students also learn about infection control, safety, culture, working with difficult patients, OSHA, communication, age-appropriate care, and legal considerations.

NURSING ASSISTANT II

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: Medical Terminology 1, and Anatomy and Physiology (Levels I and II), and Nursing Assistant I

Graduation Requirement: Elective

Nursing Assistant Levels I–III are designed to prepare students for meaningful careers in acute care, long-term care, and home health. Students learn more than 150 procedures, including key skills in patient handling and transfers, wound care, communication, safety, and record keeping. Students also learn about infection control, safety, culture, working with difficult patients, OSHA, communication, age-appropriate care, and legal considerations.

NURSING ASSISTANT III WITH CERTIFIED NURSING ASSISTANT CERTIFICATION PREPARATION

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: Medical Terminology 1, and Anatomy and Physiology (Levels I and II), and Nursing Assistant II

Graduation Requirement: Elective

Nursing Assistant Levels I–III are designed to prepare students for meaningful careers in acute care, long-term care, and home health. Students learn more than 150 procedures, including key skills in patient handling and transfers, wound care, communication, safety, and record keeping. Students also learn about infection control, safety, culture, working with difficult patients, OSHA, communication, age-appropriate care, and legal considerations.

This Level III course includes certification exam preparation as indicated by the course title. The course can be taken without labs and will prepare students for the written portion of the exams. Course labs require access to a clinical setting to complete hands-on activities (materials and instruction not provided by Fuel Education). Video tutorials are included in the course labs to provide exposure to skills in addition to hands-on practice. Schools adopting the Career Readiness Pathways will want to establish local solutions for providing students with access to equipment, lab settings, and internships, as needed. Practical hour and skill requirements for certifications vary by state; Fuel Education does not provide arrangements for students to complete hands-on requirements.

PHARMACY TECHNICIAN I

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: Medical Terminology 1, and Anatomy and Physiology (Levels I and II)

Graduation Requirement: Elective

Pharmacy Technician Levels I, II, and III provide students with the knowledge and skills required for working with a licensed pharmacist in a variety of clinical and retail settings. Students learn medical and pharmaceutical terminology, pharmaceutical calculations, pharmaceutical techniques, sterile compounding, pharmacy recordkeeping, and pharmacy law and ethics. The course creates awareness of common errors and provides students with opportunities to fine-tune critical thinking and problem-solving skills.

PHARMACY TECHNICIAN II WITH PHARMACY TECHNICIAN CERTIFICATION PREPARATION

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: Medical Terminology 1, and Anatomy and Physiology (Levels I and II), and Pharmacy Technician I

Graduation Requirement: Elective

Pharmacy Technician Levels I, II, and III provide students with the knowledge and skills required for working with a licensed pharmacist in a variety of clinical and retail settings. Students learn medical and pharmaceutical terminology, pharmaceutical calculations, pharmaceutical techniques, sterile compounding, pharmacy recordkeeping, and pharmacy law and ethics. The course creates awareness of common errors and provides students with opportunities to fine-tune critical thinking and problem-solving skills.

PHARMACY TECHNICIAN III WITH PHARMACY TECHNICIAN CERTIFICATION PREPARATION

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: Medical Terminology 1, and Anatomy and Physiology (Levels I and II), and Pharmacy Technician II

Graduation Requirement: Elective

Pharmacy Technician Levels I, II, and III provide students with the knowledge and skills required for working with a licensed pharmacist in a variety of clinical and retail settings. Students learn medical and pharmaceutical terminology, pharmaceutical calculations, pharmaceutical techniques, sterile compounding, pharmacy recordkeeping, and pharmacy law and ethics. The course creates awareness of common errors and provides students with opportunities to fine-tune critical thinking and problem-solving skills.

SPORTS MEDICINE I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course introduces students to essential skills in sports medicine, including fitness assessment, conditioning, emergency preparedness, injury management, therapeutic modalities, nutrition, and ethical and legal considerations. Students explore careers in fitness instruction, athletic training, exercise physiology, sports management, and physical therapy.

SPORTS MEDICINE II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Sports Medicine I

Graduation Requirement: Elective

This is the second semester of Sports Medicine. In this course, students continue their study of essential skills in sports medicine, including fitness assessment, conditioning, emergency preparedness, injury management, therapeutic modalities, nutrition, and ethical and legal considerations. Students explore careers in fitness instruction, athletic training, exercise physiology, sports management, and physical therapy.

CAREER EXPLORATION ELECTIVES- NATURAL RESOURCES

INTRODUCTION TO FORESTRY AND NATURAL RESOURCES

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In the Introduction to Forestry and Natural Resources course, students learn about forest ecology, management, and conservation. Students explore topics such as environmental policy, land use, water resources, and wildlife management. Finally, students learn about forestry-related careers and important issues facing forestry professionals today.

WILDLIFE AND NATURAL RESOURCE MANAGEMENT I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This course explores wildlife, fisheries, and natural resource management in today's world. The course provides students with the history and administration of natural resources, and broader concepts that impact everyone, including conservation, endangered species, and human impacts on wildlife. Students also focus their study on how to identify species, including wild animals in their habitats. Finally, the course helps students view their role in the future and how a better understanding of the natural world can prepare them for success.

WILDLIFE AND NATURAL RESOURCE MANAGEMENT II

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: Wild and Natural Resource Management I

Graduation Requirement: Elective

This is the second semester of Wildlife and Natural Resource Management. This course explores wildlife, fisheries, and natural resource management in today's world. The course provides students with the history and administration of natural resources, and broader concepts that impact everyone, including conservation, endangered species, and human impacts on wildlife. Students also study how to identify species, including wild animals in their habitats. Finally, the course helps students view their role in the future and how a better understanding of the natural world can prepare them for success.

CAREER EXPLORATION ELECTIVES - MANUFACTURING

FUNDAMENTALS OF MANUFACTURING

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In this course, students develop foundational skills in basic mechanisms and robotics, to include: parts identification and applications of robotic arms in manufacturing; CAD (Computer Aided Design with spectraCAD); CNC (Computer Numerical Control) machining; and foundational employability skills. Free software is included in the course (Windows only).

IT AND MANUFACTURING EXPLORATIONS

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

This first half of the course provides a comprehensive introduction to the essentials of web design, from planning page layouts to publishing a complete site to the web. Students learn how to use HTML to design web pages. The course covers basic HTML tags for formatting text, as well as more advanced tags. Through real-world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools. The second half of the course introduces students to engineering, computer-aided drafting using spectraCAD, and advanced manufacturing.

Materials required: Downloadable software

LEAN MANUFACTURING AND AUTOMATION

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In this course, students develop an understanding of lean manufacturing, skills in robotics, material handling, and electrical systems, while continuing with projects in CNC milling and turning. The course also includes foundational skills in math for technicians and blueprint reading. Free software is included in the course (Windows only). *Materials required: Downloadable software*

MANUFACTURING PROCESS DEVELOPMENT I

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

Manufacturing Process Development I helps students develop skills in manufacturing processes development through research projects on current trends and applications in the world of manufacturing. Students also develop virtual projects in CAD/CAM/CNC. Students work with flexible manufacturing systems in a virtual environment. Students work with robotics and material handling as an integral element of manufacturing processes. Students also address the foundational skill: Industrial Safety Lock Out Tag Out. Additionally, students develop skills with projects in advanced flexible manufacturing systems with the ER4u robot and CNC machines in a virtual environment, and automated systems with SkillsUSA robotics projects (RAT). Students have research projects in manufacturing methods and applications and prepare for certifications. Free software is included in the course (Windows only). *Materials required: Downloadable software*

MANUFACTURING PRODUCT DEVELOPMENT

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Elective

In this course, students explore rapid prototyping, CAM (Computer Aided Manufacturing with spectraCAM Turning), and the CAD/CAM process of developing CNC turning programs. Students also begin advanced robotics programming with the ER4u robot and gain exposure to power tools and math for technicians. Free software is included in the course (Windows only).

Materials required: Downloadable software

CREDIT RECOVERY

Credit recovery courses are designed for students who took a course or its equivalent, but did not pass/receive credit and need to recover the credit for graduation, or earned a 'D' and need to recover the letter grade for four-year college admission.

Please speak with your school counselor for the best credit recovery option.

CREDIT RECOVERY - ENGLISH

AMERICAN LITERATURE

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: None

Graduation Requirement: ELA

Students sharpen their reading comprehension skills and analyze important themes in classic and modern works of American literature. They review effective strategies for written expression. They develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics. Diagnostic tests assess students' current knowledge and generate individualized study plans so students can focus on topics that need review.

Materials required: Printed items (book, workbook, etc.)

BRITISH AND WORLD LITERATURE

1.0 Credit/2 semesters

Grade 11, 12

Prerequisite: None

Graduation Requirement: ELA

This course engages students in selections from British and world literature from the ancient world through modern times. They practice analytical writing and have opportunities for creative expression. Students also practice critical reading and writing test-taking skills. Diagnostic tests assess students' current knowledge and generate individualized study plans so students can focus on topics that need review.

Materials required: Printed items (book, workbook, etc.)

ENGLISH 9

1.0 Credit/2 semesters

Grade 9

Prerequisite: None

Graduation Requirement: ELA

This course includes engaging and interactive instruction about reading, writing, speaking and listening, and language—with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to grade 9. Students also learn about the formal writing process as they write a literary analysis essay.

ENGLISH 10

1.0 Credit/2 semesters

Grade 10

Prerequisite: None

Graduation Requirement: ELA

The course includes engaging and interactive instruction about reading, writing, speaking and listening, and language—with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to grade 10. Students also learn about the formal writing process as they write a literary analysis essay.

CREDIT RECOVERY - MATH

ALGEBRA 2

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Mathematics

The Algebra 2 Credit Recovery course builds on the mathematical proficiency and reasoning skills developed in Algebra 1 and Geometry to lead students into advanced algebraic work. The course emphasizes the concept of functions throughout. Sandwiched between short forays into probability and statistics is a thorough treatment of linear, quadratic, higher-degree polynomial, exponential, logarithmic, and trigonometric functions, with emphasis on analysis, problem-solving, and graphing. Toward the end of the course, an introduction to sequences and series is presented in preparation for future work in mathematics.

GEOMETRY

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Mathematics

The Geometry Credit Recovery course combines mathematical reasoning and proof with an extension of students' algebraic development in geometric contexts. The course focuses primarily on two-dimensional shapes in the Euclidean plane. Starting with segments and angles, students develop an understanding of and work through problems and proofs involving congruence, similarity, parallel and perpendicular lines, quadrilaterals, and circles. Toward the end of the course, time is also spent extending the treatment of triangles into basic trigonometry concepts and providing students with a detailed taste of analytic geometry by developing and using the equation of a circle in the coordinate plane.

CREDIT RECOVERY - SCIENCE

BIOLOGY

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Science Biologic

Topics include the scientific method, characteristics of living things, energy, organic compounds, and water. Students review the structure and function of living things, the cell, genetics, DNA, RNA, and proteins. They study evolution and natural selection; digestive, respiratory, nervous, reproductive, and muscular systems; and ecology and the environment. Diagnostic tests assess students' current knowledge and generate individualized study plans so students can focus on topics that need review.

CHEMISTRY

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: Science Physical

Students review concepts of matter, energy, the metric system, and the scientific method. Other topics include the atom; the periodic table; ionic and covalent bonds; chemical reactions; stoichiometry; gases, liquids, and solids; solutions; and acids and bases. Students review chemical thermodynamics, reaction rates and system equilibria, electrochemical processes, organic chemistry and biochemistry, and nuclear chemistry. Diagnostic tests assess students' current knowledge and generate individualized study plans so students can focus on topics that need review.

EARTH SCIENCE

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: Science Physical

This course provides students with a robust earth science curriculum. Students learn how the earth works, how it changes, and its place in the universe. They become familiar with the terminology, concepts, and practical applications of earth science and explore topics in geology, meteorology, oceanography, astronomy, and scientific methods. Diagnostic tests assess students' current knowledge and generate individualized study plans so students can focus on topics that need review.

CREDIT RECOVERY- SOCIAL SCIENCES

AMERICAN GOVERNMENT

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: History and Social Sciences Selective

This one-semester course covers the historical backgrounds, governing principles, and institutions of the government of the United States. The focus is on the principles and beliefs that the United States was founded on, and on the structure, functions, and powers of government at the national, state, and local levels. In American Government, students examine the principles of popular sovereignty, separation of powers, checks and balances, republicanism, federalism, and individual rights. They also learn about the roles of individuals and groups in the American political system. Students compare the American system of government with other modern systems and assess the strengths and problems associated with the American version.

ECONOMICS

0.5 Credit/1 semester

Grade 11, 12

Prerequisite: None

Graduation Requirement: History and Social Sciences Selective

In this one-semester course, students gain a basic understanding of economics. The course uses real-world economic applications to help students better grasp a range of economic concepts, including macro- and microeconomic concepts. The course covers the American free enterprise system and addresses how this system affects the global economy. Students learn how to think like economists as they study economic principles and different economic systems. They analyze and interpret data to understand the laws of supply and demand. Examining the world of business, money, banking, and finance helps students understand how economics is applied domestically and globally.

GEOGRAPHY

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: History and Social Sciences Selective

This course examines a broad range of geographical perspectives covering all of the major regions of the world. Each area is reviewed in a similar structure so that students can see the similarities and differences between regions. Specifically, the course explores the location of each region along with its physical characteristics, including absolute and relative position, climate, and significant geographical features. The course closely examines the human impact on each region from cultural, economic, and political perspectives. Students take diagnostic tests that assess their current knowledge and generate individualized study plans, so students can focus on topics that need review. Audio readings and vocabulary lists in English and Spanish support reading comprehension.

MODERN U.S. HISTORY

1.0 Credit/2 semesters

Grade 10, 11, 12

Prerequisite: None

Graduation Requirement: U.S History

Students review American history from the industrial revolution of the late 19th century to recent events. They examine how the American system of government works under the United States Constitution; federalism; settlement of the Great American West; issues of immigration and urban life; and the hopes, demands, and challenges African Americans and women have faced as they sought equality. Other topics include the World Wars; the American Dream; the Civil Rights movement; Vietnam; Watergate; Reaganomics; the collapse of the Soviet Union; immigration trends; the Clinton years; and the new millennium. Diagnostic tests assess students' current knowledge and generate individualized study plans so students can focus on topics that need review.

WORLD HISTORY

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: World History

World History is a survey of world history from prehistoric to contemporary times. Students learn about the socioeconomic, political, and ideological conditions of various periods as they study historical events, cultural achievements, and world regions. Using primary and secondary sources, students employ critical-thinking and problem-solving skills as they conduct inquiry-based research, participate in interactive discussions, and complete assignments establishing real-world connections. By the end of the course, students can articulate the relationship between historical occurrences and contemporary situations. They can also predict how contemporary issues will affect future generations based on historical evidence.

CREDIT RECOVERY - WORLD LANGUAGE

SPANISH I

1.0 Credit/2 semesters

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: World Language

This credit recovery course provides students with instruction in the basics of learning the language of Spanish. Content includes topics such as greetings, time, dates, colors, clothing, numbers, weather, family, houses, sports, food and drink, and school. The course also introduces basic and stem-changing verbs and their formation and use in the present tense. Students also learn about interrogatives, question formation, and adjectives and their form and use—in addition to possessives, prepositions, and other grammatical structures. Finally, students become acquainted with the Spanish-speaking countries of the world and their cultures, and learn practical information such as restaurant vocabulary and expressions of invitation.

CREDIT RECOVERY- HEALTH & PHYSICAL EDUCATION

HEALTH

0.5 Credit/1 semester

Grade 9, 10, 11, 12

Prerequisite: None

Graduation Requirement: Health

This one-semester credit recovery course provides students with information that will help them live a more healthy and productive life. The emphasis is on making healthy personal decisions and getting the information needed to make those choices. The course addresses both mental and physical health. Students learn about nutrition, including food guidelines and types of food; eating disorders are also covered. Students learn about first aid and CPR, substance abuse, and human sexuality. The course also covers consumer health resources, including government resources, nonprofit resources, and health insurance. Students learn how technology is influencing healthcare, and they examine the benefits of frequent physical exercise.

PHYSICAL EDUCATION

0.5 Credit/1 semester

Grade 9, 10, 11,

Prerequisite: None

Graduation Requirement: PE

Through this one-semester credit recovery course, students learn a wide variety of fitness concepts that they will be able to use in their everyday life. The course addresses the fundamentals of physical fitness, including goal setting and target heart rate. Students learn about how their body works by studying static and dynamic balance, linear and rotary motion, anatomy, and biomechanics. They are introduced to a variety of lifetime activities, including tennis, golf, Frisbee, and orienteering. They also learn about activities to promote cardiorespiratory fitness, including kickboxing, hip-hop dance, fitness walking, and cycling. Pilates, yoga, and breathing exercises that help promote physical and emotional wellness are addressed as well.