

Venture Academy
Family of Schools
COURSE CATALOG

2020/2021



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ENGLISH

English 9 (Grade 9)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx, Delta Vista, Imagine It, Foundations, HDF, IS (not A-G)

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the four-year English requirement

Prerequisite: Ninth Grade Standing

Description: English 9 is a course in language arts aligned with the California Common Core Standards. Students analyze the elements of short story, drama, poetry, autobiography, biography, mythology, epic, and nonfiction. Students compose narrative, literary, expository, and technical writings. Each unit of literary study involves increasingly complex texts, with an emphasis placed on the development of written and oral communication. Lessons in Grammar and Composition and Vocabulary Development are integrated into the coursework.

English 10 (Grade 10)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx, Delta Vista, Imagine It, Foundations, HDF, IS (not A-G)

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the four-year English requirement

Prerequisite: none

Description: English 10 is a course in Language Arts aligned with the California Common Core Standards. Students analyze novels, poetry, essays, editorials, science fiction, and nonfiction from a variety of eras and cultures. Students read a wide selection of world literature and explore meaning through universal themes and ideas from a global perspective. Students develop vocabulary and oral communication skills through speeches and oral presentations. Students write narrative, expository, analytical, technical, and persuasive compositions. Students read increasingly complex texts and develop research skills through completion of papers written in recognized academic format. As part of the course, students prepare for the PSAT.

English 11 (Grade 11)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx, Delta Vista, Imagine It, Foundations, HDF, IS (not A-G)

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the four-year English requirement

Prerequisite: none

Description: English 11 is a course in Language Arts aligned with the California Common Core Standards with a focus on the interrelation of American literature, history, and culture. Students analyze literary themes, movements and genres, including Romanticism, Dark Romanticism, Modernism and Realism. Students write narrative, analytical, expository and persuasive compositions, with consideration of the intended audience. Students refine research skills by completing a paper addressing a question, problem, or issue in accepted academic format. As part of the course, students prepare for the SAT.

English 12 ERWC (Grade 11 and 12)**Length:** 2 Semesters**Earn:** 10 Credits**Academies:** Delta Vista, Imagine It, Foundations, HDF, Excel, IS (not A-G)**College Entrance:** Meets A-G Requirement**Graduation:** Fulfills one year of the four-year English requirement**Prerequisite:** none

Description: This course is a full year college preparatory English course for high school juniors or seniors. The ERWC (Expository Reading and Writing Course) aligns with the California English Language Arts Content Standards, addresses critical reading and writing problems identified by the CSU English Placement Test Committee, and prepares students to meet the expectations of college and university faculty. Through a sequence of rigorous instructional modules, students develop advanced proficiency in expository, analytical, and argumentative reading and writing. Modules provide instruction in research methods and documentation conventions. Students will increase their awareness of the rhetorical strategies employed by authors and to apply those strategies in their own writing. Students will examine the relationship between an author's argument or theme and his or her audience and purpose; Analyze the impact of structural and rhetorical strategies; And examine the social, political, and philosophical assumptions that underlie the text.

AP English Language and Composition (Grade 11-12)**Length:** 2 Semesters**Earn:** 10 Credits**Academies:** Delta Vista**College Entrance:** Meets A-G Requirement**Graduation:** Fulfills one year of the English requirement.**Prerequisite:** Completion of English 9 and English 10

Description: AP Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, as well as the way generic conventions and the resources of language contribute to effectiveness in writing.

Career English (Grade 12)**Length:** 2 Semesters**Earn:** 10 Credits**Academies:** Imagine It**College Entrance:** Meets A-G Requirement**Graduation:** Fills one year of the English requirement.**Prerequisite:** Completion of English 11

Description: This course is designed to give students a pathway to appropriate career choices as they move into a post-secondary, career world. Students will access the California State Standards for ELA through the study of, and preparation for, post-secondary education, employment in a chosen sector and critical thinking skills as they relate to their life and work. Through the exploration of fiction, non-fiction and technical reading and writing, students will build and survey future ready skills. These skills for success in this course include topics such as effective oral, written and multimedia communications, managing career plans, creating alternative solutions derived from critical thinking, safety policies and other positive work skills, attitudes and values.

Publication Writing (Grade 10-12)**Length:** 2 Semesters**Earn:** 10 Credits**Academies:** Excel**College Entrance:** Meets A-G requirement.**Graduation:** Fills one year of the English requirement.**Prerequisite:** English 9

Description: This course is designed to introduce students to the basics of news writing and investigative reporting while focusing on the fundamentals of scholastic journalism. Students will practice lead writing, news writing, feature writing, sports writing, opinion writing, basics of graphic design, and desktop publishing. Passing this course may lead to later work with the school newspaper. The course will also focus study of the impact of media on public perception, as well as the media's role as a watchdog. The beginning of the course starts with an introduction to journalism ethics, the history of journalism and the discussion of free speech. Emphasis will be placed on critical, analytical reading skills, in-depth participation, constructive class discussion, and critical and evaluative writing. Students will read to determine and evaluate author's purpose and intended audience. Lessons in grammar and composition will complement the course to provide the student with a more rounded look at non-fiction prose, literature, and writing. Journalism writing focuses on the Common Core Standards for English in grades 11 and 12. Throughout the course students will write at least two full process essays, at least five journalistic articles, an in-depth research paper, and deliver formal and informal presentations.

Graphic Novels and Comics (Grade 11-12)**Length:** 2 semesters**Earn:** 10 credits**Academies:** Delta Vista**College Entrance:** Meets A-G requirement**Graduation:** Fulfills one year of the English requirement**Prerequisite:** Completion of English 9 and English 10

Description: Graphic Novels and Comics is a survey of the history of the American Comic Book and Graphic Novels. It explores the evolution of the art form from simple children's fiction, to pulp fiction to its own recognized genre in the world of art. Students learn to dissect and analyze the comic form and how authors use the different forms to build characters and how comic books have influenced art, pop culture and society through the ages.

Read 180 (Grade 9-12)**Length:** 2 semesters**Earn:** 10 credits**Academies:** Open to all High School Students that qualify based on low reading inventory scores.**College Entrance:** This course only meets A-G requirement 9th grade year.**Graduation:** Fulfills English credit**Prerequisite:** none

Description: READ 180 is a reading intervention course designed to advance the academic success of our at-risk students. This course will provide those students with an introduction to rigorous English Language Arts curriculum. The course is structured to provide intensive intervention in a single-period block to meet the requirements of the Common Core English 9 State Standards. In this class students will: Communicate clearly and coherently in writing and through oral presentations within a wide range of styles. Read and comprehend a wide range of

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fiction and non-fiction in grade appropriate materials. Think critically and problem solve by effectively completing challenging group and individual projects and assignments. Demonstrate an understanding of the complexities of global and societal issues through reading, writing, and discussion. Write clear and concise essays that support theses with evidence, convey information from primary and secondary sources, and distinguish between relative values of ideas.

SOCIAL SCIENCES

World History (Grade 9-10)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx, Delta Vista, Imagine It, Foundations, HDF, Excel, IS (not A-G)

College Entrance: Meets A-G Requirement

Graduation: Fulfills the World History requirement

Prerequisite: none.

Description: This course examines major turning points in the shaping of the modern world, from the late eighteenth century to the present. The course begins with an introduction to current world issues and continues with a focus on the expansion of the West since the Renaissance and the growing interdependence of people and cultures throughout the world. Major topics include unresolved problems of the modern world, the rise of democratic ideas, the Industrial Revolution, the rise of imperialism and colonialism, World War I and its consequences, totalitarianism in the modern world, World War II, and nationalism in the contemporary world.

United States History (Grade 10-11)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx, Delta Vista, Imagine It, Excel, IS (not A-G)

College Entrance: Meets A-G Requirement

Graduation: Fulfills the U.S. History requirement

Prerequisite: none.

Description: This course examines major American developments in the twentieth century. The course begins with a selective review of United States history. The course emphasizes the following specific themes: the expanding role of the federal government and the federal courts, the continuing tension between the individual and the state and between minority rights and majority power, the emergence of modern corporate economy, the impact of technology on American culture, the changes in the ethnic composition of America, the movement toward equal rights by ethnic minorities and women, and the role of the United States as a major world power.

American Government (Grade 12)

Length: 1 Semester

Earn: 5 Credits

Academies: Brainworx, Delta Vista, Imagine It, Foundations, HDF, Excel, IS (not A-G)

College Entrance: Meets A-G Requirement

Graduation: Fulfills one semester of the American Government requirement

Prerequisite: none.

Description: In this course students apply knowledge gained in previous years of study to pursue a deeper understanding of the institutions of American Government. This course is the culmination of the civic literacy strand that prepares students to vote, to reflect on the

responsibilities of citizenship, and to participate in community activities. A detailed study of the U.S. Constitution and other documents provides students the basis for examining the structure and function of government at the local, state, and national levels, the role of political parties, the understanding of human and civil rights, the study of comparative governments, and the analysis of contemporary issues.

Economics (Grade 12)

Length: 1 Semesters

Earn: 5 Credits

Academies: Brainworx, Delta Vista, Imagine It, Foundations, HDF, Excel, IS (not A-G)

College Entrance: Meets A-G Requirement

Graduation: Fulfills the Economics requirement

Prerequisite: none.

Description: Economics is designed as an introduction to basic economic concepts. Topics include the problem of scarcity, the many facets of a market economy, the importance of making informed choices, business organization, supply and demand, the role of labor, comparative economic systems, and international and environmental economics. The primary objective of this course is to teach students the basic tool kit of economic concepts that will enable them to make better choices in the marketplace and the voting booth and therefore become better consumers and citizens.

World Geography (Grade 9-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: IS

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills 1 year of the graduation social science requirement.

Prerequisite: none

Description: This course is designed to enhance students' understanding of the global environment in which they live. During the year course, emphasis is placed on students acquiring knowledge of world cultures, world problems, basic geography, human migration, the humanities, critical thinking skills, reading strategies, study skills, vocabulary development and writing ability.

AP Human Geography (Grade 9-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Delta Vista

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the CSU and UC social science requirement.

Prerequisite: none.

Description: The purpose of the AP course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

MATHEMATICS

Algebra I (Grade 9-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Delta Vista, Imagine It, Foundations, HDF, Excel, IS (not A-G)

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the three-year math requirement

Prerequisite: none

Description: This is an elementary course in Algebra and is a foundation course for other college prep Math and Science courses. The following topics are included in Algebra I: operations with signed numbers and algebraic expressions, linear equations and inequalities, polynomial operations and factoring, rational expressions and equations, slope/graphing equations of lines, systems of linear equations, ratio/proportion, formulas and variation, applications, radicals and exponents, and quadratic equations. Logical thinking and problem solving are emphasized throughout the course.

Geometry (Grade 9-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Delta Vista, Imagine It, Foundations, Excel, IS (not A-G)

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the three-year math requirement

Prerequisite: Recommend completion of Algebra 1 with grade of “C” or better.

Description: This comprehensive course in plane geometry includes an introduction to solid geometry and non-Euclidean geometries. This course develops geometry skills useful to all students. Students develop their ability to construct formal, logical arguments and proofs in geometric settings and problems. The course includes: congruence and similarity; The Pythagorean theorem; Basic constructions with a compass, straight edge and protractor; Coordinate geometry; Properties of angles, parallel and perpendicular lines, triangles, special right triangles, quadrilaterals, and circles; Basic trigonometric functions: Perimeter, circumference, area, volume, lateral area, and surface area of common geometric figures.

Algebra II (Grade 9-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Delta Vista, Imagine It, Excel

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the three-year math requirement

Prerequisite: Recommend completion of Geometry with grade of “C” or better.

Description: This course is a thorough review and expansion of the topics of Algebra I from a more sophisticated standpoint. The following topics are included: function notation; Variations and transformations of graphs; Linear functions; Matrices; Systems; Quadratic functions; Powers, inverses and radicals; Exponential and logarithmic functions; Trigonometry; Polynomials; Quadratic relations; Factoring and solving higher order functions.

Pre-Calculus (Grade 10-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Open to all academies

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the three-year math requirement

Prerequisite: Recommend completion of Geometry with grade of “C” or better.

Description: This course prepares students to take a first course in calculus. The students will develop the basic understanding and skills that are essential for beginning college mathematics. Pre-Calculus prepares students for Calculus and Physics courses by introducing them to functions, limits, derivatives, trigonometry, matrices, systems of equations and inequalities, analytic geometry, sequences, induction, and probability that they will apply in subsequent courses.

AP Calculus AB (Grade 11-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Delta Vista

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the three-year math requirement

Prerequisite: Recommend completion of Geometry, Algebra 2, and Precalculus with a grade of “C” or better.

Description: This course is equivalent to a college level course. Students in this course are expected to have a solid background in mathematics. Some of the topics covered in this course are limits, continuity, curve sketching, derivatives and their applications, integrals and their applications, differential equations, and more. This course is designed to prepare students for the Advanced Placement Examination given at the end of the year. Students who pass the AP exam can receive college credit.

AP Calculus BC (Grade 11-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Delta VISTA

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the three-year math requirement

Prerequisite: Recommend completion of Geometry, Algebra 2, and Precalculus with a grade of “C” or better.

Description: This is a college-level calculus course designed to meet the Advanced Placement curricular requirements for Calculus BC (equivalent to one year of college calculus). The major topics of this course are limits, derivatives, integrals, the Fundamental Theorem of Calculus, and series. The course topics extend beyond those covered in AP Calculus AB. This course is designed to prepare students for the AP exam given at the end of the year. Students who pass the AP exam can receive college credit.

Integrated Math 1 (Grade 9)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the math requirement.

Prerequisite: None.

Description: The Integrated Math 1 Course utilizes a problem-centered approach and is integrated with the other core content courses of Brainworx. Knowledge is built through units organized around a central theme. Students solve a variety of smaller problems that develop the

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underlying skills and concepts needed to solve the central problem of each unit. This course weaves content standards from Algebra 1, Geometry, Algebra 2 and Statistics at a foundation level. The course prepares students for the California High School Exit Exam, and gives them a strong foundation in the logic needed for abstract problem solving. Regular attendance and participation along with timely completion of daily practice homework is required. Students will need to demonstrate competency on quizzes and tests. Resources used include College Preparatory Mathematics, Interactive Mathematics Program, and supplemental conceptual activities.

Integrated Math 2 (Grade 10)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the math requirement.

Prerequisite: Successful completion of Integrated Math 1 or Algebra 1.

Description: The Integrated Math 2 Course utilizes a problem-centered approach and is integrated with the other core content courses of BrainworX. Knowledge is built through units organized around a central theme. Students solve a variety of smaller problems that develop the underlying skills and concepts needed to solve the central problem of each unit. This course weaves content standards from Algebra 1, Geometry, Algebra 2 and Statistics at an intermediate level and pre-calculus at a beginning level. The course prepares students for the California High School Exit Exam, and gives them a strong foundation in the logic needed for abstract problem solving. Regular attendance and participation along with timely completion of daily practice homework is required. Students will need to demonstrate competency on quizzes and tests. Resources used include College Preparatory Mathematics, Interactive Mathematics Program, and supplemental conceptual activities.

Integrated Math 3 (Grade 11)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the math requirement.

Prerequisite: Successful completion of Integrated Math 2 or Geometry

Description: The Integrated Math 3 Course utilizes a problem-centered approach. Knowledge is built through units organized around a central theme. Students solve a variety of smaller problems that develop the underlying skills and concepts needed to solve the central problem of each unit. This course weaves content standards from Geometry, Algebra 2, Pre-Calculus and Statistics at an intermediate level. The course prepares students for higher-level mathematics courses including AP courses. Regular attendance and participation along with timely completion of daily practice homework is required. Students will need to demonstrate competency on quizzes and tests. Resources used include College Preparatory Mathematics, Interactive Mathematics Program, and supplemental conceptual activities.

AP Computer Science A (Grade 11-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Delta VISTA

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College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the three-year math requirement

Prerequisite: Recommend completion of Geometry and Algebra 2 with grade of “C” or better.

Description: This one-year course is designed to introduce the student to computer programming and the problem solving strategies that are fundamental to computer science. Furthermore, it is designed to prepare the student for taking the AP Computer Science A exam at the end of the year. Students who pass the AP exam can receive college credit.

Intro to College Prep Math (Grade 9)

Length: 2 Semesters

Earn: 10 Credits

Academies: All

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills one year of the math requirement.

Prerequisite: Meet placement criteria

Description: This course is designed to prepare students for success in Algebra, geometry, and/or Integrated math courses. Major Topics covered include Integers, Expressions, Order of Operations, Statistics (mean/median/mode) creating and interpreting data(graphs), Exponents, Fractions/Percents/Decimals, Combining and Distributive Property, Equations, Two & Three Dimensional Figures (Area/Perimeter/Volume, Measurement. Students meeting the criteria for ICPM are identified through the Venture Academy 9th Grade Placement Protocol in accordance with SB 359, the California Mathematics Placement Act of 2015.

AP Statistics (Grade 12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the math requirement.

Prerequisite: Successful completion of Integrated Math 3 or Algebra 2

Description: In this course, students develop strategies for collecting, organizing, analyzing, and drawing conclusions from data. Students design, administer, and tabulate results from surveys and experiments. Probability and simulations aid students in constructing models for chance behavior. Sampling distributions provide the logical structure for confidence intervals and hypothesis tests. Students use a TI-84 graphing calculator, Fathom and Minitab statistical software, and Web-based java applets to investigate statistical concepts. To develop effective statistical communication skills, students are required to prepare frequent written and oral analyses of real data.

Algebra Basics (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students that qualify based math inventory scores.

College Entrance: This course does not meet A-G requirement

Graduation: Fulfills math credit

Prerequisite: none

Description: MATH 180 is a math intervention program designed to address the needs of struggling students, building students' confidence with mathematics and accelerating their progress to algebra.

The class is designed for students who need to build numerical understanding and reasoning skills, and the course focuses on key foundation concepts that enable students to make connections while learning to think algebraically.

SCIENCE

Biology (Grade 9-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx, Delta Vista, Imagine It, HDF, Excel, IS (not A-G)

College Entrance: Meets A-G Requirement

Graduation: Fulfills one-year life science

Prerequisite: none.

Description: This introductory Biology course will serve as a foundation for other life sciences. This course emphasizes the biochemical and cellular nature of living organisms. Topics include genetics and the structure and functions of systems in plants and animals including humans, ecology, the environment and evolution. Students develop proficiency in correct laboratory procedures and in collecting and analyzing data through sequenced laboratory experiences.

Chemistry (Grade 10-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx, Delta Vista, Excel

College Entrance: Meets A-G Requirement

Graduation: Fulfills the Physical Science requirement

Prerequisite: Completion of Algebra 1 with a "C" or better. Concurrent enrollment in Geometry or Algebra 2 is recommended.

Description: This is an introductory course in theories and concepts of modern chemistry. The course emphasizes matter and change, atomic structure, the periodic table and properties, ionic, metallic, and covalent bonding, chemical names and formulas, chemical reactions, stoichiometry, states of matter, gas laws, solutions, thermochemistry, equilibrium, reaction rates, acid based reactions, and organics. The laboratory work develops students' reasoning power and the ability to apply chemical principles.

AP Chemistry (Grade 11-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx, DV

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the CSU and UC physical science requirement.

Prerequisite: Completion of Algebra 1 with a "C" or better. Concurrent enrollment in Geometry or Algebra 2 is recommended.

Description: The AP Chemistry course provides students with a college-level foundation to support future advanced course work in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and

equilibrium. Created by the AP Chemistry Development Committee, the course curriculum is compatible with many Chemistry courses in colleges and universities.

Earth and Space Science (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Brainworx, Delta Vista, HDF

College Entrance: Meet A-G requirements

Graduation: Fulfills Physical Science Credit

Prerequisite: none

Description: This is a laboratory course focusing on the study of space, Earth, and the forces and processes that shape them. While the course emphasizes Earth and space science, other branches of science such as physics and chemistry will be integrated into the content. Throughout the course, students will explore the history of astronomy and space exploration, the origins of the universe, galaxies, stars, our solar system, the Earth, and the geologic processes that shape our world. Students will engage in inquiry-based labs, engineering projects, simulations and modeling.

Earth Science (Grade 9-10)

Length: 2 Semesters

Earn: 10 Credits

Academies: Delta Vista, Imagine It, IS (not A-G)

College Entrance: Meets A-G requirement

Graduation: Fulfills Physical Science requirement.

Prerequisite: Completion of Algebra 1 with a “C” or better.

Description: This one year course explores the foundations of Earth Science in the following related topics/ fields: Earth’s place in the universe, dynamic Earth processes, Energy in the Earth system, biochemical cycles, structure and composition of the atmosphere, and California geology. Students will have the opportunity for self-assessment as well as for teacher guidance and assessment throughout the course including the preparation and finalization of two semester Problem Solving Projects, which focus on research, organization, and drafting strategies. The course covers scientific terminology, historical and cultural advances in science, vocabulary building, test taking strategies, and several simulated labs, hands-on labs, the essay, workplace documents, and science projects using the scientific method.

Ecology (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: HDF

College Entrance: Meets A-G Requirement

Graduation: Fulfills life science requirement

Prerequisite: None

Description: Ecology is the primary specialized discipline of life science that studies the relationships between organisms and their environment. This course provides a background in the fundamental principles of ecological science. Students will acquire ecological literacy about how the natural world works and develop an understanding of how scientific methods are used to construct ecological knowledge. This ecology course is designed to expose students to the complexity of interactions in the natural world through readings, videos, applied activities, field studies, and laboratory work. Students will communicate their understandings regularly in

journals and lab/field reports. In addition, students will take a unit test at the completion of each unit in the course and a cumulative Final Exam at the end of the course.

Integrated Physical Science (Grade 9-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Imagine It

College Entrance: Meets A-G Requirement

Graduation: Fulfills one year of the physical science requirement.

Prerequisite: none.

Description: Integrated Physical Science is a college preparatory laboratory and math-based science class that will prepare students in grades 9-12 to be successful in college level lab science courses. The course integrates chemistry, physics, Earth, space, and environmental science. It is aimed at building a solid foundation in physical science, integrating an intensive laboratory component that consists of both classroom labs and practical field studies, and building student competency in science practices and the scientific method. This course devotes at least 40 percent of the class time to student-centered laboratory activities and will emphasize the process of inquiry and critical thinking.

AP Physics (Grade 11-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx

College Entrance: Meets A-G requirement

Graduation: Fulfills one year of the Physical Science requirement

Prerequisite: Algebra 2

Description: The AP Physics course is designed to enable you to develop the ability to reason about physical phenomena using important science process skills such as explaining causal relationships, applying and justifying the use of mathematical routines, designing experiments, analyzing data and making connections across multiple topics within the course.

Physics (Grade 9-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Foundations

College Entrance: Meets A-G requirement

Graduation: Fulfills one year of the Physical Science requirement

Prerequisite: none

Description: The Physics course is an introductory level course designed to enable you to develop the ability to reason about physical phenomena using important science process skills such as explaining causal relationships, applying and justifying the use of mathematical routines, designing experiments, analyzing data and making connections across multiple topics within the course.

Introduction to Physical Science (Grade 9)

Length: 1 Semester

Earn: 5 Credits

Academies: Excel

College Entrance: This course does not meet A-G requirement

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Graduation: Fulfills 1/2 year of the Physical Science requirement

Prerequisite: none

Description: An exploration of physical sciences laboratory course integrated with NGSS concepts to prepare 9th graders for other science classes.

FOREIGN LANGUAGE

Spanish I (Grade 9-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: All

College Entrance: Meets A-G Requirement

Graduation: Fulfills the fine art/foreign language requirement

Prerequisite: Minimum grade of “C” or better in English or teacher recommendation.

Description: Spanish 1 is an introductory course for students who wish to learn a foreign language. It is intended to develop facility in listening, reading, speaking, and writing. Major emphasis is on development of the ability to speak fluently with accurate pronunciation and intonation, while fostering an appreciation of culture.

Spanish II (Grade 10-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: All

College Entrance: Meets A-G Requirement

Graduation: Fulfills the fine art/foreign language requirement

Prerequisite: Recommendation of “C” or better in Spanish 1.

Description: Spanish II is designed for students who have successfully completed Spanish I. Students will further their study of the Spanish language in a more structured form. This course covers intermediate dialogue and sentence structure. The student is expected to master grammatical structure of the language, including the use of verbs in all tenses and the use of all pronouns.

Spanish III (Grade 11-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Delta Vista

College Entrance: Meets A-G Requirement

Graduation: Fulfills the fine art/foreign language requirement

Prerequisite: Recommendation of “C” or better in Spanish 2.

Description: Spanish III is designed for students who have successfully completed Spanish II. This course is conducted almost exclusively in Spanish, with limited English use for grammar explanations and remediation. Spanish III builds on prior knowledge of grammar, oral and aural literacy, and writing skills; Students participate in all four areas of language acquisition. Through the use of authentic literature, students will achieve Spanish III reading proficiency by and develop an extensive vocabulary. At the end of the course, students will have a solid foundation for writing short essays and interpret short readings.

AP Spanish (Grade 11-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Delta Vista

College Entrance: Meets A-G Requirement

Graduation: Fulfills the fine art/foreign language requirement

Prerequisite: Recommendation of “C” or better in Spanish 3.

Description: The AP Spanish Language course is comparable to an advanced level (5th- and 6th-semester or the equivalent) college Spanish language course. Emphasizing the use of Spanish for active communication, it encompasses aural/oral skills, reading comprehension, grammar, and composition. In this course, special emphasis is placed on the use of authentic source materials and the integration of language skills. Students receive extensive training in combining listening, reading, and speaking (or listening, reading, and writing) skills in order to demonstrate understanding of authentic Spanish-language source materials.

PHYSICAL EDUCATION

P.E. (Grade 9-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: Brainworx, Imagine It, Foundations, Excel

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills 10 credit of the 20 required to graduate.

Prerequisite: None

Description: This course is designed to give the students a chance to learn the fundamentals of a variety of sports. The course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. Some of the sports include: basketball, volleyball, football, dodge ball, soccer ball, baseball/softball/kickball and more. Along with learning the fundamentals of sports, students will learn about personal health, hygiene and cardiovascular activities. While participating in the sporting activities, students will learn teamwork, responsibility and good sportsmanship.

Health (Grade 9-12, Grade 9 recommended)

Length: 1 Semesters

Earn: 5 Credits

Academies: Brainworx, Imagine It, Foundations, Excel, IS

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills health requirement.

Prerequisite: None

Description: This course is designed to help students examine their lifestyles, select goals, and make plans to achieve and maintain optimum health. The course focuses on choosing behaviors, which help prevent illness and accidents, promote health for ones’ self and others, and improve the quality of the environment. The course promotes responsible decision-making and provides students with life management skills they can use for the rest of their lives.

Archery (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: HDF

College Entrance: This course does not meet A-G requirements

Graduation: Physical Education or elective credit

Prerequisite: none

Description: Archery is a physical education class for students of all skills levels. Students learn archery safety, skills, and drills. In addition, they learn about archery form, range rules, and etiquette. Form training and games are used to improve students' skills.

VISUAL AND PERFORMING ARTS

Art Essentials (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Delta Vista, Imagine It, IS

College Entrance: Meets A-G Requirement

Graduation: Fulfills VP Arts requirement or elective credit

Prerequisite: None

Description: Art Essentials is designed to introduce the elements of art and the principles of design to students through hands on experience. Basic drawing, color theory, and composition will be taught as well as projects designed to develop critical thinking, aesthetic appreciation, and creative vision. This course introduces students to the elements of art and the principals of design through hands-on exploration. The focus is on developing creativity, skills and a visual vocabulary to understand the aesthetic and expressive value of their own and others' original art. This is a required course for all incoming students because the basic concepts of art and design will be needed in Graphic Communications, Construction, Mechanical Construction, and Pre-Engineering, all CTE courses the students will take on their way to developing their own career interests and paths. Students will maintain a portfolio of projects that demonstrate their understanding of the fundamentals of art and their own emerging style. As they learn technical skills, the focus will gradually shift to using art to solve a visual problem, explore a social issue and express their own thoughts, feelings and viewpoints.

Choir (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Foundations

College Entrance: Meets A-G Requirement

Graduation: Fulfills Fine Arts or electives requirement

Prerequisite: None

Description: This is an advanced choral music class designed for singers displaying a high degree of vocal/choral experience and skill. Emphasis is on more advanced facets of musicianship, vocal/choral production and vocal/choral technique. Participation in performances of the Select Singers is mandatory.

Drama (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Foundations

College Entrance: Meets A-G Requirement

Graduation: Fulfills Fine Arts requirement or elective credit.

Prerequisite: None

Description: This is an introductory course giving students a survey of various aspects of theatre and drama. Students will learn about theatre history, a theatre environment, basic movement, and vocal techniques and the design process.

Introduction to Drama and Theatre Arts (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Foundations

College Entrance: Meets A-G Requirement

Graduation: Fulfills VP Arts requirement, elective, or PE credit

Prerequisite: None

Description: First year theater students-regardless of grade level: These elective courses begin with basic acting techniques, the role of the actor in interpreting dramatic literature, the historical evolution of performance styles, and the introduction to stagecraft. Rehearsals for performances during after school hours are required. Students survey various aspects of theater and drama and learn about theater history, theater environment, basic movement, vocal techniques and the design process.

Intermediate Film (Grade 10-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: Meets A-G requirements

Graduation: Fulfills elective credits

Prerequisite: Video Productions or Integrated Technology

Description: This course will examine specific uses of film and video technology in various entertainment and industry sectors. Students receive advanced training in pre and postproduction jobs and competencies, current and emerging technologies, and the collaborative nature of the creative process involved in video production.

Advanced Film (Grade 10-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: Meets A-G requirement

Graduation: Fulfills elective credits

Prerequisite: Intermediate Film

Description: This course will provide an in depth look at the filmmaking process. Students will learn advanced screenwriting, filming, and editing techniques currently used in major motion picture production.

Introduction to Theatre Dance and Movement (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Foundations

College Entrance: Meets A-G Requirement

Graduation: Fulfills VP Arts requirement, elective, or PE credit

Prerequisite: None

Description: This course is an introduction to the study of the role of choreographed dance and the development of skills, techniques, styles and body agility necessary for participation in theater productions. Group dance experiences through rehearsal, performance, dance technique training and technical theater practice is included.

Take 3 Advanced Performance (Grade 9-12)**Length:** 2 semesters**Earn:** 10 credits**Academies:** Foundations**College Entrance:** Meets A-G Requirement**Graduation:** Fulfills VP Arts requirement or elective credit and program graduation requirement.**Prerequisite:** Audition and 1-year successful completion of Introduction to Drama and Theater Arts or instructor approval.**Description:** This course provides practical, hands-on experience in acting and stagecraft allowing students to develop production and acting skills for public performance outside school hours. Students gain basic knowledge of set design, lighting costuming, prop management and entry level ticketing. Students learn about careers for theater professionals i.e. create a theatrical resume, royalties and contract negotiations for productions. Students prepare audition pieces their first year in the program. Out-of-school rehearsals and performances are required.**Digital Photography (Grade 9-12)****Length:** 2 semesters**Earn:** 10 credits**Academies:** Open to all High School Students**College Entrance:** This course does not meet A-G requirements**Graduation:** Fulfills VP Arts requirement or elective credit**Prerequisite:** None**Description:** Digital Photography covers the artistic and technical aspects of digital photography. The course covers camera and lens operation, memory cards, file formats, exposure, white balance, composition, lighting, creativity, image editing software and output, exposure, composition, lighting, creativity and image editing and correction techniques.

ELECTIVES

Advanced Carpentry (Grade 11-12)**Length:** 2 semesters**Earn:** 10 credits**Academies:** Open to all High School Students**College Entrance:** This course does not meet A-G requirements**Graduation:** Fulfills elective credits**Prerequisite:** Construction Technology**Description:** This instructional program emphasizes the preparation of individuals to lay out, fabricate, erect, install, and repair wooden structures and fixtures, using hand and power tools. It includes instruction in common systems of framing, including stair layout, windows and exterior doors, floor systems, drywall installation and finishing, construction materials, estimation, and blueprint reading should be considered. (Intermediate or Capstone)**Animal and Plant Physiology (Grade 11-12)****Length:** 2 semesters**Earn:** 10 credits**Academies:** HDF**College Entrance:** Meets A-G requirements**Graduation:** Fulfills elective credits**Prerequisite:** none

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Description: The Animal and Plant Physiology course is designed to prepare students with relevant knowledge and competencies associated with animal and plant science disciplines within agriculture. In this course, students analyze the structures and functions of both animals and plants, specifically focusing on species used for agricultural production. This course provides a study of common production cycles including nutrition, reproduction and diseases of both small and large animals, as well as the causes and means of prevention. Emphasis is placed on mammals that are most important to human civilizations. Systems of focus include the skeletal, muscular, cardiovascular, integumentary, endocrine, reproductive, immune and digestive systems. Students do so through dissections, labs, simulations, research projects, and hands-on experiences. As part of this course, students work with both plants and animals, studying environmental changes, nutrition requirements and behavior. This course serves as a part of the Agriculture-Animal Science Pathway. Due to the intracurricular nature of Future Farmers of America (FFA), students are required to participate in FFA activities which are graded components of the course. Tests are given regularly and students are expected to participate in assignments, class discussions and other structured events and activities. In addition, students are expected to complete individual and group projects, as well as long-term assignments.

AVID I (Grade 9)

Length: 2 semesters

Earn: 10 credits

Academies: Delta Vista, Imagine It, Foundations, Brainworx, HDF

College Entrance: Meets A-G requirement

Graduation: Fulfills elective credit

Prerequisite: None

Description: AVID 1 is an interdisciplinary course for AVID freshmen. The course is designed for those students who elect to take a course that prepares them for the rigor required for college work. Students will engage in WIC-R (writing, inquiry, collaboration and reading) strategies and will focus on time management and organizational skills that will help them become more successful students.

AVID II (Grade 10)

Length: 2 semesters

Earn: 10 credits

Academies: Delta Vista, Imagine It, Foundations, Brainworx, HDF

College Entrance: Meets A-G requirement

Graduation: Fulfills elective credit

Prerequisite: None

Description: AVID 2 is an interdisciplinary course for AVID sophomores. The course is designed for those students who elect to take a course that prepares them for the rigor required for college work. Students will engage in higher levels of WIC-R (writing, inquiry, collaboration and reading) strategies than experienced in the prior years of AVID. Students will begin focusing on which colleges are going to best fulfill their academic and career requirements. Time management and organizational skills will continue to be a focus.

AVID 3-4 (Grade 11-12)

Length: 2 semesters

Earn: 10 credits

Academies: Delta Vista, Imagine It, HDF

College Entrance: Meets A-G Requirement

Updated Sept 10, 2020

Graduation: Fulfills elective credit

Prerequisite: None

Description: The AVID 3/4 Junior-Senior Seminar is a two- year interdisciplinary course for AVID juniors and seniors. The course is designed for those students who elect to take a course that prepares them for the rigor required for college work. Students will engage in higher levels of WIC-R (writing, inquiry, collaboration and reading) strategies than experienced in prior years of AVID. These higher-level thinking, reading, writing and oral language skills are needed to prepare students for the level of work required to produce a culminating research project at the end of the senior year.

Business and Personal Finance (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: IS

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credits

Prerequisite: none

Description: Business and Personal Finance introduces students to understanding personal finance decisions and allows students to see the business applications of finance. Students will learn how to plan and manage their personal finances, achieve a financially successful life, and take financial responsibility as a citizen. This should lead to students thinking about the larger consequences of making financial decisions. Although many of the more practical aspects of personal finance will change over time, due to practices, technologies, customs, and laws, the fundamental awareness of ways to think well about solving financial issues remains constant.

Child Development (Grade 9-12)

Length: 2 Semesters

Earn: 10 Credits

Academies: IS

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective requirement

Prerequisite: none

Description: Child Development is a course which enables students to understand how to work with and care for children as they grow. Students learn how children from infancy through age six grow physically, mentally, socially, and emotionally.

Construction Technology (Grade 10-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credits

Prerequisite: Residential and Commercial Construction Trades

Description: This course is comprehensive, building upon foundational skills learned in an introductory class. The course will focus on all aspects of the building process, including site layout/survey, foundations, masonry, floor systems, framing, roofing, exterior finishing, electrical, HVAC, waste systems and plumbing. The course introduces advanced construction concepts and practices as well as management and production practices in current use in the construction industry.

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Culinary Arts I (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School students

College Entrance: Meets A-G requirement

Graduation: Fulfills elective credit

Prerequisite: None

Description: This concentration course expands on the comprehensive core and prepares students to understand the scientific principles of nutrition, the relationship of nutrition to health and well-being, and careers related to food and nutrition. Instruction includes nutrition and health, safety and emergencies, food safety and sanitation, meal management, food preparation, food purchasing, food in culture, the science of food and nutrition, food costs and production, and food technology. This course provides a solid background for a wide range of careers food science, dietetics and nutrition, as well as food service and hospitality. Course titles may include: Nutritional Science; Foods and Nutrition; Food, Nutrition and Meal Management; Culinary Arts I.

Computer Programming

Length: 2 Semesters

Earn: 10 Credits

Academies: Delta VISTA

College Entrance: Meets A-G Requirement

Graduation: Fulfills elective credit

Prerequisite: none

Description: This is a two-semester course designed to introduce the student to computer programming. Students explore and apply a variety on logic constructs, abstract data structures, and algorithms for solving problems and for implementing graphics. Furthermore, the course is designed to prepare the student for the rigors of taking AP Computer Science during the next year.

Culinary Arts II (Grade 10-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School students

College Entrance: Meets A-G requirement

Graduation: Fulfills elective credit

Prerequisite: Culinary I

Description: A capstone course that prepares students with food production, preparation, and service skills for employment institutional, commercial, or independently owned food establishments or other food and hospitality industry occupations. Instruction includes topics such as planning, selecting, storing, purchasing, preparing, testing, serving and selling of quality food and food products, nutritive values; safety and sanitation; use and care of commercial equipment; management of food establishments; cost and profitability analysis; side work and customer orders; and handling cash and credit transactions. Course titles may include: Careers in Food Service and Hospitality; Advanced Culinary Arts; Restaurant Marketing and Management; and ProStart 1-11.

Exploration of Health Careers (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students who are a HOSA member

College Entrance: Meets A-G requirement

Graduation: Fulfills Elective credit

Prerequisite: none

Description: Exploration of Health Careers is an introductory course intended to give the student a chance to explore the health care industry and the possible career paths within the industry. Students will gain an understanding of job research techniques as well as effective job seeking skills. Each student will explore the use of several different types of instrumentation that is utilized in medical, clinical and laboratory settings. Students will effectively access databases, make entries, and retrieve copies for medical and clinical records. Students will explore the major career fields and be able to distinguish between technical, professional, and entry level positions within each area. The course is intended as a prerequisite course for ROP and Advanced Health Careers. This will allow the student to make rational choices for junior and senior courses, which will increase their candidacy admission into post-secondary educational institutions and/or occupational positions.

Film Appreciation (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills Elective Credit

Prerequisite: none

Description: This course is designed to develop an appreciation for film/movies and to gain knowledge in film as an art as well as a basic understanding of film analysis. Student will explore the political, social, economic, and ethical dimensions of artistic expression in film, as well as time periods and multicultural society.

Graphic Communications (Grade 10-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credits

Prerequisite: Intro to Graphic Arts Technology

Description: This course provides students with an in depth understanding of manufacturing processes and systems common to careers in integrated graphics technology. Representative topics include integrated text, graphic, audio, and video enterprises; composition and imaging; on-demand publishing; desktop publishing; integrated graphic design; digital imaging; color separation theory; communication techniques; electronic prepress; electronic image assembly; analog and digital audio; integrated graphic media distribution; and integrated graphic media production and storage.

Graphic Design I (Grade 11-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

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College Entrance: Meets A-G requirement

Graduation: Fulfills elective credits

Prerequisite: Graphic Communications

Description: Capstone- Graphic Arts- Communications focused.

Graphic Design II (Grade 11-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: Meets A-G requirements

Graduation: Fulfills elective credits

Prerequisite: Graphic Design I

Description: Second part of Capstone.

Horticulture (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: HDF

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills Elective Credit

Prerequisite: None

Description: Horticulture is a course designed to give students a background in the field of horticulture and its many career opportunities. Students will all research various career options in the horticulture industry, with emphasis on nursery and greenhouse production, retail nursery, organic fruit and vegetable production, and landscape maintenance/installation. This course is an introduction to the principles and practices involved in the development, production, and use of horticulture crops. Students will learn the environmental influences on plant growth, crop scheduling, greenhouse structures and equipment. Students participate in a variety of activities including extensive laboratory work usually in a school greenhouse.

Imagine It Blog (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Imagine It

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credit.

Prerequisite: None

Description: ImagineIt Blog is a class that focuses on the career paths that students pursue at ImagineIT. This class provides a platform where students can inspire and motivate their local community by sharing their experiences with Career Technical Education. This class will include new as well as traditional literacies, covering digital citizenship authentically, providing an online home for digital and analog creations. The blogging experience will challenge students to do more reflection on their learning and allow them to showcase products they have produced using online tools.

Individual and Community Development ICD (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Delta Vista

College Entrance: This course does not meet A-G requirements

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Graduation: Fulfills elective credit.

Prerequisite: None

Description: Individual and Community Development curriculum includes subjects such as career planning, social behavior in the workplace, and math and English skills necessary for work. Students will learn proper workplace etiquette, how to write a cover letter and resume, and various other forms of formal communication and interview skills. They will practice these skills through community related projects, which will lead to the exploration of various careers and employment opportunities.

Industrial Art (Grade 9-12)

Length: 1 semester

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credit.

Prerequisite: None

Lab Fee: \$25.00 for the semester plus the cost of materials for personal projects.

Description: This course covers the basics of woodworking and metal working with an emphasis in metal artwork. The students learn the safety procedures for safe use of shop equipment as well as how to design and fabricate projects in wood and steel. We will learn how to safely use all of the power tools available in the industrial arts classroom, also known as, "The Shop." We will not only rock climb regularly but will also build new "challenges" to add to the climbing walls. Safety in the shop and in the climbing gym is mandatory. Students will confidently climb, belay, and zip on the many walls, cables, lines and ropes available to them in the climbing gym. As part of the class, students instruct and belay the K-5th graders from Ventureland, as well as help them build the wooden toy projects they get to make.

Integrated Technology (Grade 9)

Length: 2 semesters

Earn: 10 credits

Academies: Brainworx

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credits

Prerequisite: Introduction to Media Arts

Description: This course provides students with an understanding of manufacturing processes and systems. Representative topics include integrated text, graphic, audio, and video enterprises; composition and imaging; desktop publishing; integrated graphic design; digital imaging; communication techniques; integrated graphic media distribution; and integrated graphic media production and storage.

Introduction to Building and Construction Trades (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credits

Prerequisite: None

Description: This course is intended to be an introductory course focusing on the foundational skills needed in the construction trades and is required for enrollment in advanced career and

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technical education courses in the Building and Construction Trades Sector. It will include the study of safety, career opportunities, hand and power tools, planning and design, applicable mathematics, blueprint reading, component nomenclature, trade vocabulary, residential and commercial construction standards, construction manufacturing standards, and specialized skills. Competencies related to each standard in the sector are taught.

Introduction to Graphic Arts Technology (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: Meets A-G requirements

Graduation: Fulfills elective credits

Prerequisite: none

Description: This course provides students with a foundational understanding of manufacturing processes and systems common to careers in graphic arts and printing technology.

Representative topics include printing enterprise, art and copy preparation, graphic design, image generation and assembly, reproduction photography, graphic reproduction operations, binding and finishing related to digital imaging, lithography, and screen printing.

Introduction to Manufacturing and Welding Technology (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credits

Prerequisite: none

Description: This course provided students with a basic understanding of manufacturing processes and systems common to careers in welding and related industries. Representative topics include the introduction to interpretation and layout of welded and assembled-part prints.

This introductory Instructional program prepares individuals to use both gas welding and any combination of arc welding processes. Those processes may include shielded metal arc welding (SMAW), gas metal arch welding (GMAW), and gas tungsten arc welding (GTAW to weld metal part. It prepares individual for basic fabrication and assembly of a variety of products and includes instruction in layout. Representative course titles include: Introduction to Welding, Welding Technology I, Metal Fabrication, Welding Combination, Welding Electric, Welding Gas, etc.

Investigative Biology (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: HDF

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credits

Prerequisite: None

Description: The course is aimed at building a solid foundation in the Big Ideas of biological science (cellular processes, genetics, evolution, and interactions), integrating an investigative laboratory component that consists of both classroom labs and outdoor field studies and practical application, and building student competency in science practices and the scientific method.

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Latinos in Action (Grade 9-12)**Length:** 2 semesters**Earn:** 10 credits**Academies:** All**College Entrance:** This course does not meet A-G requirements**Graduation:** Fulfills elective credits**Prerequisite:** None

Description: Latinos In Action (LIA) offers a unique approach to bridging the graduation and opportunity gap for Latino students, working from within the educational system to create positive change. The class operates as a year-long elective course taught by a highly-qualified teacher. The end goal of the class is to empower Latino youth to lead and strengthen their communities through college and career readiness. This is accomplished by focusing on four pillars: leveraging personal and cultural assets, excelling in education, serving the community, and developing leadership skills. During Class time, L.I.A. Students engage in 3 core components: College and Career Readiness, Leadership Development, and Literacy Tutoring.

Manufacturing Materials/Processing/Production (Grade 10)**Length:** 2 semesters**Earn:** 10 credits**Academies:** Open to all High School Students**College Entrance:** This course does not meet A-G requirements**Graduation:** Fulfills elective credits**Prerequisite:** Exploring Manufacturing & Design

Description: This course exposes students to the tools, machines, and processes encountered in manufacturing and stress the analysis, testing and processing of metals, plastics, woods, ceramics, and composite materials. These courses enable students to experience the process of translating an idea into a finished product with instruction in planning, designing, selecting materials, and using tools and machines.

Mechanical Construction I (Grade 11-12)**Length:** 2 semesters**Earn:** 10 credits**Academies:** Open to all High School Students**College Entrance:** This course does not meet A-G requirements**Graduation:** Fulfills elective credits**Prerequisite:** Welding Technologies and Fabrication

Description: The course prepares individuals to use submerged arc welding (SAW), flex-core arc welding (FCAW), and plasma arc welding (PAW), laser beam welding (LBW), and other advanced welding processes.

Mechanical Construction II (Grade 11-12)**Length:** 2 semesters**Earn:** 10 credits**Academies:** Open to all High School Students**College Entrance:** This course does not meet A-G requirements**Graduation:** Fulfills elective credits**Prerequisite:** Mechanical Construction

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Description: This course provides advanced students the opportunity to specialize in a particular area of interest, expand their expertise in a particular specialization, and develop more advanced skill.

Medical Terminology (Grade 10-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: Meets A-G requirement

Graduation: Fulfills elective or health credit

Prerequisite: Completion of Exploration of Health Careers

Description: The Medical Science and Terminology course prepares students with a foundation to understand and use medical terminology for a future career in the medical health field. Presentation of the vocabulary terms are organized according to the human body systems. Assignments and labs designed to expose students to the use of the language. The course follows the Health Science and Medical Technology Patient Care Pathway standards.

Mock Trial (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: Meets A-G requirement

Graduation: Fulfills academic elective credit

Prerequisite: None

Description: Mock Trial is a class where students explore the various aspects of our country's judicial branch. Students implement the following critical thinking standards to analyze the facts of various crime cases: purpose, point of view, assumptions, inference, validity, implications, and consequences. Students also learn through experiential techniques how to present a case in court. Students prepare opening statements, closing arguments, direct examinations, and cross-examinations. Students also learn to analyze and debate the details of historic and current court cases as they pertain to interpreting the constitution and its amendments.

Product Development (Grade 11)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School students

College Entrance: Meets A-G requirement

Graduation: Fulfills elective credit

Prerequisite: Manufacturing Materials/Processing/Production

Description: This course provides students with the opportunity to focus on one or more areas of industrial technology, creatively pursuing new knowledge or solving a technological problem, by designing and building prototypes and working models. Students learn and apply appropriate information in order to complete a project.

Residential and Commercial Construction Trades (Grade 10-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

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College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credits

Prerequisite: Introduction to Building and Construction Trades

Description: This course provides individuals with the intermediate skills and information specific to the residential and commercial construction industry. It comprises the study of fasteners and hardware, finishes and coatings, materials, installation techniques, new and emerging technologies, mapping and surveying, levels and transits, foundations and floors, walls and partitions, roof systems, electrical wiring, interior and exterior finishes, floor coverings, metal construction, heating and cooling, concrete and brick masonry, insulation, glazing, maintenance, and landscaping.

Sociology (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: IS

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credits

Prerequisite: none

Description: This course explains the behavior, role and grouping of people in various societies. The scope of study ranges from fundamental principles of sociology to problems of a mass society. Selected topics for analysis include but are not limited to culture, social structure, social institutions, socialization, continuity, and change, and social problems. Students will be exposed to a variety of individual and group projects that examine groups as well as societal conflicts.

Sport Media and Communication (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Excel

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credits

Prerequisite: none

Description: The Sports Media and Communication Class is designed to provide students with introductory skills in sports reporting through various media. Students will cover Venture Academy sports teams and write/produce game stories, season previews, conduct interviews, recaps, podcasts and highlight packages which will be available through electronic media. The course will have an emphasis on sports journalism and communications, sports broadcasting, and ethical reporting.

STEM Environmental Leadership (Grade 10-12)

Length: 2 semesters

Earn: 10 credits

Academies: HDF

College Entrance: Meets A-G requirements

Graduation: Fulfills elective credits

Prerequisite: none

Description: The STEM Environmental Leadership Course is designed to give students the opportunity to work in partnership with the San Joaquin County Office of Education STEM Programs at Durham Ferry Outdoor Education Center. The STEM Program is committed to

utilizing the Outdoor Education Center to provide students in grades 3 - 5 with experiences in outdoor environmental education. This is done through MEANDER Field Studies (Mentorship in Ecological Awareness through Nature Discovery, Exploration, and Regeneration), field trips in which elementary students in grades 3 -5 engage in activities that allow them to become scientists in their local environment. Students in STEM Environmental Leadership learn science content, teaching strategies and act as mentors during the MEANDER Field Studies to engage these students in scientific processes and environmental activities. At the completion of the course students will earn a certificate in STEM Environmental Leadership.

Study Skills (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Excel, Delta Vista, Foundations

College Entrance: This course does not meet A-G requirements

Graduation: Fulfills elective credits

Prerequisite: none

Description: This course is designed for IEP and 504 students and any other students needing additional resource help. This course focuses on organizational and study skills, skills to transition to college/career, IEP goal completion, and resource help for other academic courses.

Welding Technologies and Fabrication (Grade 10-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: Meets A-G requirements

Graduation: Fulfills elective credits

Prerequisite: Intro to Manufacturing and Welding Technology

Description: This course provides students with an understanding of manufacturing processes and systems common to careers in welding and related industries. The instructional program prepares individuals to use both gas welding (OAW) and any combination of arc welding processes (SMAW, GMAW, GTAW) to weld metal parts and plan and lay out materials as specified by diagrams, blueprints, or written specifications. Representative topics include the interpretation and layout of welded and assembled-part prints, mechanical bonding, joining, cohesive bonding, adhesive bonding, and mechanical fastening. It prepares individuals to fabricate and assemble a variety of products and includes instruction in layout; the sequence of design; the construction of templates and fixtures; and the positioning, aligning, fitting, and welding of parts. Representative course titles include: Welding Technology, Metal Fabrication, Welding Combination, Welding Electric, Welding Gas, etc.

Video Productions (Grade 9-12)

Length: 2 semesters

Earn: 10 credits

Academies: Open to all High School Students

College Entrance: Meets A-G requirement

Graduation: Fulfills elective credits

Prerequisite: none

Description: This course will combine competencies in film, video, computer, and live production, as well as foundational knowledge in design to introduce students to a variety of jobs

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in the multimedia/communications workforce. Instruction will focus on the interaction between media sources in live, recorded, and web-based productions. Students will develop skills in computer design, film and video production, lighting, sound, and production design, and print media design. Students will also explore career options within this rapidly expanding industry sector.

Volt Leadership (Grade 10-12)

Length: 2 semesters

Earn: 10 credits

Academics: Open to all High School Students

College Entrance: Meets A-G Requirement

Graduation: Fulfills elective credits

Prerequisite: Must interview to get in class

Description: The leadership class is designed to give student's hands-on leadership experience. Students will learn leadership skills through the planning and implementation of school and community activities.