



*Venture Academy*  
*Family of Schools*

*COURSE CATALOG*  
*2015/2016*



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Dear Parent and Students:

In this registration booklet you will find the information you need to help determine which courses you'd like to take within your high school academy. Typically students take courses within their own academy but there are always allowances to take classes outside of your academy as well. If you have any questions about the course descriptions or whether or not you can take a course, please see one of the school counselors.

Please carefully review the graduation requirements, college admission requirements, and other information in this booklet to ensure that the courses selected will assist you in attaining your future goals. It is important you work closely with your teacher of record to help select courses that help you meet your educational and career goals but also challenge your abilities and fulfill your interests.

If you have questions about your schedule or courses, please contact your teacher of record or a school counselor at (209) 468-5940. We are always happy to help.

Sincerely,

The Counseling Team

## GRADUATION AND COLLEGE REQUIREMENTS

Subject	Venture Academy	UC/CSU (A-G)
History/Social Science	<u>30 credits</u> 10 US History 10 World History 10 Govt/Econ	<b>(Area A) – 20 Credits</b> US History or AP US History Civics or AP Govt. World Hist. or World Geography or AP Human Geography
English	<u>40 credits</u>	<b>(Area B) – 40 Credits</b> English 9 English 10 English 11 or American Lit English 12 or EWRC or AP English
Mathematics	<u>20 credits</u> 10 Algebra I 10 other	<b>(Area C) – 30 Credits</b> Algebra I Geometry Algebra II <i>4 years recommended</i>
Science	<u>20 credits</u> 10 Life Science 10 Physical Science	<b>(Area D)- 20 Credits</b> 20 Credits of Laboratory Science <ul style="list-style-type: none"> <li>• Biology, Chemistry, Physics</li> </ul> <i>3 years recommended</i>
Foreign Language	10 credits or 10 credits of a Visual and Performing Art	<b>(Area E) – 20 Credits</b> 2 years of a foreign language required 3 years recommended Must be the same language
Visual & Performing Arts	10 credits or 10 credits of a Foreign Language	<b>(Area F) – 10 Credits</b>
PE/Health	20 credits PE 2.5 credits Health	None required
Community Service	5 credits	None required
Elective	57.5 credits	None required
Required Examinations		SAT and/or ACT
Notes	Total Credits: 205	Students must earn a “C” grade or better to count for UC/CSU

## ENGLISH

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### **English 9 (Grade 9)**

**Length:** 2 Semesters

**Earn:** 10 Credits

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

**College Entrance:** UC/CSU 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

**College Entrance:** UC/CSU 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

**College Entrance:** UC/CSU 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 EWRC (Grade 11 and 12)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Brainworx, Delta Vista, Imagine It, Foundations, HDF, Excel, IS

**College Entrance:** UC/CSU 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.

### **Intro to English Language and Composition (Grade 9-11)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Excel

**College Entrance:** UC/CSU Requirement

**Graduation:** Fulfills one year of the English requirement.

**Prerequisite:** none

**Description:** This course presents an introduction into the study of the literature from ancient times through the present. With emphasis on major authors and literary trends, all forms of literature will be covered, including poetry, prose, and drama. Discussion and written assignments will stress insight into the works, and correlation with history, culture, literature, and other fine arts. Emphasis will be placed on critical, analytical reading skills, participation, constructive class discussion, and critical, evaluate writing.

### **AP English Language and Composition (Grade 11-12)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Delta Vista

**College Entrance:** UC/CSU 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.

## SOCIAL SCIENCES

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### **World History (Grade 9-10)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Brainworx, Delta Vista, Imagine It, Foundations, HDF, Excel, IS

**College Entrance:** UC/CSU 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.

### **AP World History (Grade 10-12)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Brainworx

**College Entrance:** UC/CSU Requirement

**Graduation:** Fulfills the World History requirement

**Prerequisite:** Teacher recommendation

**Description:** In the AP World History course students will read and analyze selected primary sources (documents, images, maps and quantitative data including charts, graphs and tables). The five themes discussed in AP World History are: Interaction Between Humans and the Environment; Development and Interaction of Cultures; State-Building, Expansion and Conflict, Creation; Expansion and Interaction of Economic Systems; and Development and Transformation of Social Structures.

### **United States History (Grade 10-11)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Brainworx, Delta Vista, Imagine It, Foundations, HDF, Excel, IS

**College Entrance:** UC/CSU 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 Semesters

**Earn:** 5 Credits

**Academies:** Brainworx, Delta Vista, Imagine It, Foundations, HDF, Excel, IS

**College Entrance:** UC/CSU 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

**College Entrance:** UC/CSU 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 CSU/UC 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:** UC/CSU 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.

### **Psychology (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** IS

**College Entrance:** This course does not meet UC/CSU requirement

**Graduation:** Fulfills 1 year social science credit

**Prerequisite:** none

**Description:** Psychology is a one-year study designed to introduce students to the systemic and scientific study of the behavior and mental processes of human beings. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology.

### **AP Psychology (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Delta Vista

**College Entrance:** UC/CSU Requirement

**Graduation:** Fulfills 1 year social science credit

**Prerequisite:** none

**Description:** The AP Psychology course stresses critical thinking, reading, and writing within the context of scientific methodology and questioning. Students are introduced to the major topical areas of psychology by studying core concepts and theories and by learning the basic skills of psychological research. A thematic approach is used to provide students with tools for mastering the broad content area of an introductory course. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. A variety of activities, demonstrations, and projects will be provided to meet this goal of instructing scientific and empirical approaches. These themes include: nature vs. nurture; multiple factors influence behavior; psychology is empirical, and psychology is theoretically diverse.



# MATHEMATICS

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## **Algebra I (Grade 9-12)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Brainworx, Delta Vista, Imagine It, Foundations, HDF, Excel, IS

**College Entrance:** UC/CSU 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

**College Entrance:** UC/CSU 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 intro 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, Foundations, HDF, Excel

**College Entrance:** UC/CSU 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:** Delta Vista**College Entrance:** UC/CSU 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.

**Statistics (Grade 10-12)****Length:** 2 Semesters**Earn:** 10 Credits**Academies:** Delta Vista, Excel**College Entrance:** UC/CSU Requirement**Graduation:** Fulfills one year of the three-year math requirement**Prerequisite:** Successful Completion of Algebra 1 and Geometry

**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 Skills (Grade 9-12)****Length:** 2 Semesters**Earn:** 10 Credits**Academies:** Brainworx**College Entrance:** UC/CSU Requirement**Graduation:** Fulfills one year of the three-year math requirement**Prerequisite:** none

**Description:** The Math Skills Course is designed to help students build the basic math skills outlined on the California High School Exit Exam. Course content is tied specifically to the math strands of number sense, statistics, data analysis, and probability, measurement and geometry, algebra and functions, mathematical reasoning, and algebra 1. Students will be given numerous practice CAHSEE exams throughout the course.

### **AP Statistics (Grade 12)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Brainworx, Delta Vista

**College Entrance:** UC/CSU Requirement

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

**Prerequisite:** Successful Completion of Integrated Math 3 or Algebra 2

**Description:** AP Statistics is the high school equivalent of a one semester, introductory college statistics course. 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.

### **Integrated Math 1 (Grade 9)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Brainworx

**College Entrance:** UC/CSU 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 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:** UC/CSU 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:** UC/CSU 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.

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## **SCIENCE**

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### **Biology (Grade 9-12)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Brainworx, Delta Vista, Imagine It, HDF, Excel, IS

**College Entrance:** UC/CSU 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:** UC/CSU 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.

### **Earth Science (Grade 9-10)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Brainworx, Delta Vista, IS

**College Entrance:** CSU/UC 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.

### **Physics (Grade 10-12)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Brainworx, Delta Vista, Imagine It

**College Entrance:** UC/CSU Requirement

**Graduation:** Fulfills the physical science requirement

**Prerequisite:** Completion of Completion of Algebra 2 with a grade of “C” or better. Concurrent enrollment in Pre- Calculus recommended.

**Description:** This course is a laboratory science. Topics include motion, forces, conservation of energy, momentum, heat and thermodynamics, waves, electric and magnetic phenomena. The goals and objectives of this course are aligned with the California State Content Standards for Physics. As student scientists, students will have an opportunity to understand foundational concepts in this inquiry based, student centered course that teaches them they can mirror humankind’s discovery of the world of physics. Emphasis will be placed on laboratory work, practical applications and individual projects.

### **AP Physics (Grade 9-12)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Brainworx

**College Entrance:** UC/CSU Requirement

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

**Prerequisite:** none.

**Description:** The AP Physics 1 course is conducted using inquiry-based instructional strategies that focus on experimentation to develop students’ conceptual understanding of physics

principles. The students begin studying a topic by making observations and discovering patterns of natural phenomena. The next steps involve developing, testing, and applying models. Throughout the course, the students construct and use multiple representations of physical processes, solve multi-step problems, design investigations, and reflect on knowledge construction through self-assessment rubrics. In most labs, the students use probeware technology in data acquisition. In the classroom, they use graphing calculators and digital devices for interactive simulations, Phyletic-based exercises, collaborative activities, and formative assessments.

## **FOREIGN LANGUAGE**

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### **Spanish I (Grade 9-12)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** Delta Vista, Excel, Odysseyware

**College Entrance:** UC/CSU 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:** Delta Vista, Excel

**College Entrance:** UC/CSU 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:** UC/CSU 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:** UC/CSU 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.

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**PHYSICAL EDUCATION**

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**P.E. (Grade 9-12)****Length:** 2 Semesters**Earn:** 10 Credits**Academies:** Brainworx, Imagine It, Foundations, Excel**College Entrance:** This course does not meet CSU/UC 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 CSU/UC 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.

## **FINE AND PERFORMING ARTS**

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### **Art Essentials (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Delta Vista, Imagine It, IS

**College Entrance:** UC/CSU 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.

### **Art Exploration (Grade 10-12)**

**Length:** 1 semester, can be continued for one year

**Earn:** 5-10 credits

**Academies:** Imagine It

**College Entrance:** This course does not meet CSU/UC requirements

**Graduation:** Fulfills VP Arts requirement or elective credit

**Prerequisite:** Successful completion of Art Essentials or teacher recommendation

**Description:** Art Explorations is designed for students who have some experience or a strong interest in Visual Arts. Students will practice and explore art media and concepts through a variety of projects. Projects may include pastel, printmaking, painting, drawing and 3-D media. Students will maintain a sketchbook, portfolio and reflect regularly on their work in writing.

### **History Research Seminar (Grade 11-12)**

**Length:** 1 semester

**Earn:** 5 credits

**Academy:** Brainworx

**College Entrance:** UC/CSU Requirement

**Graduation:** Fulfills VP Arts requirement or elective credit

**Prerequisite:** none

**Description:** This is a semester course meant to provide advanced history students with an opportunity to research into a United States history topic of their own choosing in detail and depth. The end result will be students completing a significant semester-long research and writing project based on primary and secondary historical materials. Students will research a singular topic using primary/secondary sources and create a 25-page research thesis paper, organize a final presentation for teacher and other students. The topics may be from any aspect of United States history and will contain a formal thesis format. The goal of the seminar is to



sharpen skills in defining a suitable historical topic for investigation, developing a workable research design, placing research in appropriate historical contexts, selecting a variety of suitable primary and secondary sources for analysis, and conveying your findings in clear written prose and in an effective oral presentation.

### **Ballet Dance (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Foundations

**College Entrance:** This course does not meet CSU/UC requirements

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

**Prerequisite:** None

**Description:** This course is designated to introduce the fundamental theory and practice of ballet techniques. Emphasis is placed on placement body alignment, muscular control, and the development of vocabulary of basic ballet positions and steps.

### **Choir (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Foundations

**College Entrance:** This course does not meet CSU/UC requirements

**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.

### **Concert Choir (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Foundations

**College Entrance:** This course does not meet CSU/UC requirements

**Graduation:** Fulfills Fine Arts or electives requirement

**Prerequisite:** Audition Required

**Description:** Concert Choir is for students who wish to gain singing and performing experience. In addition to singing, the choir members will also gain basic singing skills, music reading, and performance techniques.

### **Choreography (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Foundations

**College Entrance:** This course does not meet CSU/UC requirements

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

**Prerequisite:** None

**Description:** This course is an introduction to choreography through a series of problem solving activities. Choreographic process and application will be introduced to assist in the development

of dance composition.

### **Hip Hop Dance (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Foundations

**College Entrance:** This course does not meet CSU/UC requirements

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

**Prerequisite:** None

**Description:** This course introduces students to basic skills and technique of Hip Hop dance styles. Students will learn, explore dance combinations using a variety of popular music.

### **Drama (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Foundations

**College Entrance:** UC/CSU 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:** UC/CSU 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.

### **Introduction to Photography (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Foundations

**College Entrance:** This course does not meet CSU/UC requirements

**Graduation:** Fulfills VP Arts requirement or elective credit and program requirement

**Prerequisite:** None

**Description:** This course is an introductory course in traditional black and white photographic camera work and laboratory procedures. Basic camera theory, darkroom procedures, aesthetics, history, and concepts are presented in lecture and practiced in laboratory periods.

### **Intermediate to Photography (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Foundations

**College Entrance:** This course does not meet CSU/UC requirements

**Graduation:** Fulfills VP Arts requirement or elective credit and program requirement

**Prerequisite:** Successful completion of Introduction to Photography (B/W Lab)

**Description:** This course is an intermediate black & white film photography course with emphasis on film processing and darkroom printing. Assignments include camera exposure, black & white films and fiber based papers, contrast control, camera filters, medium format cameras, finishing techniques and history of photography.

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

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Foundations

**College Entrance:** UC/CSU 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.

### **Jazz Dance (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Foundations

**College Entrance:** This course does not meet CSU/UC requirements

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

**Prerequisite:** None

**Description:** This course is an introduction to standard beginners Jazz dance with emphasis placed on anatomy, primary stretches, isolations, port de bras, terminology and fundamental Jazz combinations.

### **Take 3 Advanced Performance (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Foundations

**College Entrance:** This course does not meet CSU/UC requirements

**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.

### **Piano I (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Foundations

**College Entrance:** This course does not meet CSU/UC requirements

**Graduation:** Fulfills VP Arts requirement or elective credit

**Prerequisite:** None

**Description:** This course is designed to provide a survey of the visual arts from the mid-nineteenth century to the present with an emphasis on Europe and North America.

### **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 CSU/UC 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.

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## **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 CSU/UC 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)

### **Advanced Cinema/Film/Video Productions (Grade 12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Open to all High School Students

**College Entrance:** CSU/UC requirement

**Graduation:** Fulfills elective credits

**Prerequisite:** 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 post production

jobs and competencies, current and emerging technologies, and the collaborative nature of the creative process involved in video production.

### **AVID I (Grade 9)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Delta Vista, Imagine It

**College Entrance:** CSU/UC 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

**College Entrance:** UC/CSU 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

**College Entrance:** UC/CSU Requirement

**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.

### **Broadcast Journalism VAMTV (Grade 11-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Open to all High School Students

**College Entrance:** CSU/UC requirement

**Graduation:** Fulfills elective credits

**Prerequisite:** 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 post production jobs and competencies, current and emerging technologies, and the collaborative nature of the creative process involved in video production.

### **Business and Personal Finance (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** IS

**College Entrance:** This course does not meet CSU/UC 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.

### **Career Exploration (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Imagine It, IS

**College Entrance:** This course does not meet CSU/UC requirements

**Graduation:** Fulfills elective requirement

**Prerequisite:** None

**Description:** Students will learn how to fill out a job application, interviewing skills and resume writing. They will receive a certificate upon completion from WorkNet. They will also learn about various college and career opportunities.

### **Child Development (Grade 9-12)**

**Length:** 2 Semesters

**Earn:** 10 Credits

**Academies:** IS

**College Entrance:** This course does not meet CSU/UC 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 CSU/UC 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.

### **Film Appreciation (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**College Entrance:** This course does not meet CSU/UC 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 CSU/UC 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

**College Entrance:** CSU/UC 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:** CSU/UC requirements\

**Graduation:** Fulfills elective credits

**Prerequisite:** Graphic Design I

**Description:** Second part of Capstone.

**History Through Film (Grade 10-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Brainworx

**College Entrance:** This course does not meet CSU/UC requirements

**Graduation:** Fulfills Elective Credit

**Prerequisite:** None

**Description:** History through Film is designed to look at History through the eyes of 20<sup>th</sup> and 21<sup>th</sup> century moviemakers. This course will give students insight into how many people gain their knowledge of history, and understand the inaccuracies and literary license taken by many filmmakers. Students will learn to disseminate these inaccuracies and understand their purpose. Class will be taught in thematic units. Topics may include, but are not limited to: sports in history, racial integration, biographies, propaganda, wars throughout history and specific instances turmoil and events throughout the world. Independent films, major studio productions, and documentaries will be viewed.

**Horticulture (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** HDF

**College Entrance:** This course does not meet CSU/UC 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.



### **Individual and Community Development ICD (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Delta Vista

**College Entrance:** This course does not meet CSU/UC requirements

**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 CSU/UC 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.

### **Integrated Technology (Grade 10-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Open to all High School Students

**College Entrance:** This course does not meet CSU/UC requirements

**Graduation:** Fulfills elective credits

**Prerequisite:** Introduction to Media Arts

**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.

### **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 CSU/UC 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 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:** This course does not meet CSU/UC 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 CSU/UC 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.

### **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 CSU/UC 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 CSU/UC requirements

**Graduation:** Fulfills elective credits

**Prerequisite:** Mechanical Construction

**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.

### **Media Productions (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Open to all High School Students

**College Entrance:** CSU/UC 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 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.

### **Mobile App Design (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academies:** Open to all High School students

**College Entrance:** CSU/UC requirement

**Graduation:** Fulfills elective credit

**Prerequisite:** None

**Description:** is an introductory mobile application design & programming course using Java and Eclipse for Android devices. The “meat” of the course is spent learning some basic Java programming and then on to working with Eclipse in order to start developing real working apps. Those lessons and skills are then applied toward programming for Android devices.

**Mock Trial (Grade 9-12)****Length:** 2 semesters**Earn:** 10 credits**Academies:** Open to all High School Students**College Entrance:** CSU/UC 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.

**Nutrition: A Culinary Arts expedition to Lifetime Wellness (Grade 9-12)****Length:** 2 semesters**Earn:** 10 credits**Academies:** Open to all High School students**College Entrance:** CSU/UC requirement**Graduation:** Fulfills elective credit**Prerequisite:** None

**Description:** The curriculum is concentrated in four major areas: Health and wellbeing, food preparation, food and beverage management, and kitchen management. Additional courses in sanitation, food chemistry, and nutrition and personnel management round out the specialized Culinary Arts curriculum.

**Residential and Commercial Construction Trades (Grade 10-12)****Length:** 2 semesters**Earn:** 10 credits**Academies:** Open to all High School Students**College Entrance:** This course does not meet CSU/UC 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 CSU/UC 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.

**Speech and Debate (Grade 10-12)****Length:** 2 semesters**Earn:** 10 credits**College Entrance:** This course does not meet CSU/UC requirements**Graduation:** Fulfills elective credits**Prerequisite:** English 9 with grade of "C" or better

**Description:** This course is an introduction to oral communication with emphasis on public speaking. Students will be introduced to and refine research skills, delivery skills, and listening and evaluative skills for a variety of types of speeches. Various communication theory and practices are explored as well as practiced throughout the course. Parliamentary debates are introduced, explored and effectively practiced.

**Welding Technologies and Fabrication (Grade 10-12)****Length:** 2 semesters**Earn:** 10 credits**Academies:** Open to all High School Students**College Entrance:** This course does not meet CSU/UC 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.

**Weight Training (Grade 9-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academics:** Open to all High School Students

**College Entrance:** This course does not meet CSU/UC requirements

**Graduation:** Physical Education and elective credit

**Prerequisite:** Students should have a general interest in fitness.

**Description:** The goal of this course is to engage in conversations and activities that will prepare students to become lifelong athletes and enjoy fitness. The course will begin with an overview of basic, foundational movements that will allow for progression into more complicated lifts and sport specific skills. Baseline testing and checkpoints will be used to analyze progress. This course considers activity as a lifelong process that will improve physical, mental and academic capacity. Students will be taught functional movements that carry over into everyday life.

**Volt Leadership (Grade 10-12)**

**Length:** 2 semesters

**Earn:** 10 credits

**Academics:** Open to all High School Students

**College Entrance:** This course does not meet CSU/UC requirements

**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.

