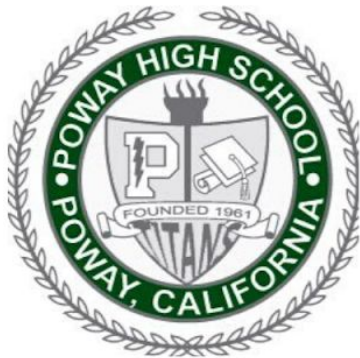


POWAY HIGH SCHOOL

*COURSE
CATALOG*

2020-2021



Poway High School Course Catalog

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The 2020-2021 Course Catalog is still in the process of being updated.

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Required and Recommended Courses for Chosen Path

Poway Unified School District Poway High School Graduation Requirements	Credits	California State University (CSU) and University of California (UC) A-G Requirements	Highly Selective Colleges and Universities <i>Including most UCs</i>
<u>HISTORY/SOCIAL SCIENCE</u> 6 Trimesters = 3 Years	30	<u>A - HISTORY/SOCIAL SCIENCE</u> 4 Trimesters = 2 Years	<u>HISTORY/SOCIAL SCIENCE</u> 4 Trimesters = 2 Years
<u>ENGLISH</u> 8 Trimesters = 4 Years	40	<u>B - ENGLISH</u> 8 Trimesters = 4 Years	<u>ENGLISH</u> 8 Trimesters = 4 Years
<u>MATHEMATICS</u> 4 Trimesters = 2 Years	20	<u>C - MATHEMATICS</u> 6 Trimesters = 3 Years	<u>MATHEMATICS</u> 8 Trimesters = 4 Years
<u>SCIENCE</u> 4 Trimesters = 2 Years <i>1 year of each: Physical and Biological</i>	20	<u>D - SCIENCE</u> 4 Trimesters = 2 Years <i>Recommend at least 3 years - Biology/Chemistry/Physics</i>	<u>SCIENCE</u> >=6 Trimesters/3 Years of Lab Science with at least 2 years in one discipline (Biology/Chemistry/Physics)
<u>FINE ART</u> 2 Trimesters = 1 Year	10	<u>E - LANGUAGE OTHER THAN ENGLISH</u> 4 Trimesters = 2 Years of the same language <i>Recommend 3 years</i>	<u>LANGUAGE OTHER THAN ENGLISH</u> 8 Trimesters = 4 Years of the same language
<u>HEALTH</u> 1 Trimester	5	<u>F - VISUAL AND PERFORMING ARTS</u> 2 Trimesters = 1 Year in the same discipline	<u>VISUAL AND PERFORMING ARTS</u> 2 Trimesters = 1 Year in the same discipline
<u>PHYSICAL EDUCATION</u> 4 Trimesters = 2 Years	20	<u>G - COLLEGE PREPARATORY ELECTIVES</u> 2 Trimesters = 1 Year <i>Chosen from additional A-G courses beyond those used to satisfy the requirements above</i>	<u>COLLEGE PREPARATORY ELECTIVES</u> 2 Trimesters = 1 Year <i>Chosen from additional courses beyond those used to satisfy the requirements above</i>
<u>ELECTIVES</u> 17 Trimesters = All Years <i>Chosen from any academic or elective courses beyond the minimum required for that academic or elective area</i>	85	<i>Recommend at least 1 Honors or AP Course</i>	<i>Recommend several Honors and AP courses</i>
TOTAL CREDITS REQUIRED	230		

Community College Requirements

Students who have earned a high school diploma are eligible to enroll in community college. Community colleges offer transfer agreements with local California State Universities, the University of California, and some private universities. Students may check with Palomar College or other local community colleges for more information.

HISTORY/SOCIAL SCIENCE

UC/CSU

“A”

AP EUROPEAN HISTORY 1-2 (APEC)	001316-001317	GRADE 10	UC/CSU “A”, “G”
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Prerequisite: Grade of B or higher in High School English 1-2 or teacher recommendation

Advanced Placement European History 1-2 covers the economic, political and cultural forces in Western civilization from the 15th to the 20th Century. This course meets the World History requirement for high school graduation. Students taking this course may take the Advanced Placement examination in European History. This course may be used to meet the UC/CSU “A” or “G” requirement.

AP EUROPEAN HISTORY 1-2 SEMINAR	001709	GRADE 10	NON A-G
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This is a one-trimester class. It will allow students to refine their understanding of and writing skills in the social sciences. AP European History Seminar will further expose students to the issues of evidence, interpretation, methodology and critique in social science research, applying these skills to an independent, long-range project. Academic research methods and techniques specific to the social sciences will also be included. This course may be used to meet a PUSD elective graduation requirement.

Teacher Comments: AP European History is a challenging course aimed at giving students the experience and rigor of college level work in the high school environment. Students will focus on mastering the historical thinking skills needed to pass the culminating test in May with hopes of receiving college credit for their hard work. Students who are highly motivated and disciplined will excel in AP European History. A typical night's homework is around one hour, but is dependent on a student's reading comprehension skills. There is a video project or presentation each trimester done in groups aimed at diving deeper into a certain aspect of the content. AP European History is a rigorous but rewarding class that can be a pivotal stepping stone to junior year.

AP U.S. GOVERNMENT & POLITICS 1-2	001395-001396	GRADE 12	UC/CSU “A”, “G”
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Prerequisite: Grade of B or higher in U.S. History 1-2 or AP U.S. History or teacher recommendation

Advanced Placement U.S. Government & Politics 1-2 is designed to give students a critical perspective on government, politics and economics in the United States. The class involves both the study of general concepts used to interpret American governmental, political and economic systems and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs and ideas that make up the American political reality. This course is intended to prepare students who wish to take the Advanced Placement examination in U.S. Government & Politics. This course may be used to meet the UC/CSU “A” or “G” requirement.

AP U.S. GOVERNMENT & POLITICS 1-2 SEMINAR	001710	GRADE 12	NON A-G
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This is a one-trimester class. It begins with an in-depth analysis of civil liberties and civil rights. After that, the emphasis will be on extending the content, knowledge and skills that were introduced in the AP U.S. Government 1-2 portion of the sequence of courses. It will introduce students to career options and investment strategies. This course may be used to meet a PUSD elective graduation requirement.

AP U.S. HISTORY (APUSH) 1-2	001382-001383	GRADE 11	UC/CSU "A","G"
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Prerequisite: Grade of B or higher in U.S. History 1-2 or AP U.S. History or teacher recommendation

Advanced Placement U.S. History 1-2 is an advanced course taught at the college level. It is designed for students who wish to take the Advanced Placement examination and emphasizes extensive reading, research and problem solving, writing, historiography and historical knowledge. This course may be used to meet the UC/CSU "A" or "G" requirement.

AP U.S. HISTORY 1-2 SEMINAR	001715	GRADE 11	NON A-G
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This is a one-semester course which will allow students to refine their understanding of and writing skills in the social sciences as well as explore topics and concepts relevant to the United States in the global community of the 21st century. Academic research methods and techniques specific to the study of social sciences will also be included. This course may be used to meet a PUSD elective graduation requirement.

Teacher Comments: Students will engage in a critical, year long examination of historical events that have contributed to the development of an American identity. Beginning with a look into life in the Americas before Columbus and ending with the attacks on September 11th, students will read and analyze a variety of primary and secondary sources that they will use to support written and oral arguments. In addition, students will complete Focus Assignments and extensively research and write about a chosen topic in American history throughout the school year.

AGRICULTURAL GOVERNMENT POLICY <i>This course is also listed under Career Technical Education</i>	000919	GRADE 12	UC/CSU "A"
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This class is designed to allow students to study the origins of our federal, state and local governments and study their structure, function, theory and process while understanding the influence of the government on the agriculture industry. Students who successfully complete the course will earn civics credit..This course may be used to meet the UC/CSU "A" requirement.

CIVICS	001393	GRADE 12	UC/CSU "A","G"
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Civics surveys the origins of our federal, state and local governments and studies their structure, function, theory and process. It promotes citizenship skill building by serving the community in an "outside project" and prepares students for the political and social arenas of the future. This is a practical course applying knowledge toward voting, jury duty, and the rights and privileges of community participation. Must be taken in 12th grade only. This course may be used to meet the UC/CSU "A" or "G" requirement.

ECONOMICS	001398	GRADE 12	UC/CSU "A"
<p>Economics is a course in which students will deepen their understanding of the economic problems and institutions of the nation and the world in which they live. They will learn to make reasoned decisions on economic issues as citizens, workers, consumers, business owners and managers. Primarily a course in social science, economics enriches students' understanding of the operations and institutions of economic systems. Must be taken in 12th grade only. This course may be used to meet the UC/CSU "G" requirement.</p>			
<p><i>Teacher Comments: Activities are interactive, reflecting the belief that students learn best through active, personalized experiences with economics. Applications of economic understanding to real world situations and contexts dominate the lessons.</i></p>			

U.S HISTORY 1-2	001376-001377	GRADE 11	UC/CSU "A","G"
<p>U.S. History 1-2 is a course in which students examine the economic, social and political development of the United States, concentrating primarily on the twentieth century. During the year certain themes will be emphasized: the expanding role of the federal government; the continuing tension between the individual and the state; the emergence of a modern corporate economy; the impact of technology on American society and culture; change in the ethnic composition of American society; the movements toward equal rights for racial minorities and women; and the role of the United States as a major world power. Throughout the course students will explore American culture, literature, the arts and the mass media. Students will demonstrate competency in questioning, critical thinking, research and writing as it applies to the discipline of history. Competency-based educational objectives will be in compliance with California State Model Curriculum Standards. This course may be used to meet the UC/CSU "A" or "G" requirement.</p>			

WORLD HISTORY 1-2	001301-001302	GRADE 10	UC/CSU "A","G"
<p>World History 1-2 is a course where students will examine major turning points in the shaping of the modern world, from the late eighteenth century to the present. The year begins with an introduction to current world issues and then continues with a focus on the expansion of the west and the growing interdependence of people and cultures throughout the world. Art, music, literature and primary source documents will be used as a basis for analysis of the historical periods. Students will demonstrate competency in questioning, critical thinking, research and writing as it applies to the discipline of history. Competency-based educational objectives will be in compliance with California State Model Curriculum Standards. This course may be used to meet the UC/CSU "A" or "G" requirement.</p>			
<p><i>Teacher Comments: World History 1: In this course, you will complete a survey of World History from the foundations of democracy through World War I. Critical thinking skills will be developed as past events are analyzed, evaluated and connected to current events. Skills that will be developed will be note-taking, analyzing primary sources and visual evidence, and learning to write an historical argument using research. A major goal of this class is to help you understand more about the world today. This class should begin to prepare you to move on to either United States History 1-2, or Advanced Placement United States History 1-2 your junior year. Completion of World History 1-2 or AP European Civilization 1-2 is a high school graduation requirement.</i></p> <p><i>World History 2: In this course, you will complete a survey of World History from post-World War I to the present day. Critical thinking skills will be developed as past events are analyzed, evaluated and connected to current events. Skills that will be developed will be note-taking, analyzing primary sources and visual evidence, and learning to write an historical argument using research. A major goal of this class is to help you understand more about the world today. This class should prepare you to move on to either United States History 1-2, or Advanced Placement United States History 1-2 your junior year. Completion of World History 1-2 or AP European Civilization 1-2 is a high school graduation requirement.</i></p>			

ENGLISH

UC/CSU "B"

AMERICAN LITERATURE 1-2	000387-000388	GRADE 11	UC/CSU "B", "G"
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Prerequisite: High School English 3-4

American Literature 1-2 introduces famous American writers such as Bradford, Dickinson, Whitman, Irving, Poe, Crane, Twain, O'Henry, Hawthorne, Hemingway and Steinbeck, and the philosophical context of the literature. American Literature 2 deals with more modern American writers. Possible choices of authors to be studied include Faulkner, Hemingway, Steinbeck, Albee, O'Neill, Williams, Salinger, Sandburg, Frost, or Fitzgerald. Students will continue to practice the essay format, including research based essay, advanced literary concepts and SAT vocabulary. This course may be used to meet the UC/CSU "B" or "G" requirement.

AP ENGLISH LANGUAGE AND COMPOSITION (APEL) 1-2	000372-000373	GRADE 11	UC/CSU "B", "G"
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Prerequisite: Teacher recommendation

In this class students will read, discuss, and write about American fiction and non-fiction, from Colonial to modern times, focusing on text analysis, rhetorical strategies, and vocabulary development to prepare them for the AP English Language Exam. As an advanced reading and composition course, students should be familiar with the use of concrete details and commentaries to support a thesis driven essay. Students will carefully review the essay form before moving on to develop a more specific understanding of audience and style for persuasive writing. Students will focus on academic writing and the research process. This course also emphasizes the development of research skills and the preparation of a persuasive research paper. This course may be used to meet the UC/CSU "B" or "G" requirement.

AP ENGLISH LANGUAGE AND COMPOSITION SEMINAR	001702	GRADE 11	NON A-G
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AP English Language and Composition Seminar will be offered during the third trimester. The course will offer students the opportunity to partake in project-based learning and apply learning acquired during the Advanced Placement class. Students will design their own projects that may involve creation of videos, distribution of surveys, publication of art, or multimedia. Student learning will become active as students complete projects that demonstrate their learning and understanding and/or show how this learning translates into an action or a product. Additionally, the course will allow students to earn elective credit as they review and continue to develop an understanding of the elements of effective rhetoric and argumentation. This includes, but is not limited to, the study of logos, ethos, pathos, and other stylistic tools. This course may be used to meet a PUSD elective graduation requirement.

AP ENGLISH LITERATURE 1-2	000370-000371	GRADE 12	UC/CSU "B", "G"
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Prerequisite: Teacher recommendation

Advanced Placement English Literature 1-2 is a college-level course designed to prepare students to take the Advanced Placement English examination. The course presents examples of Western literary development from the Greeks through the twentieth century, acquainting students with various genres and themes. Emphasis will be placed on a close reading and analysis of the individual literary work. In addition, attention may be given to the historical and philosophical characteristics of the authors, literary movements and genres. Students also will be expected to write expository, researched papers. This course may be used to meet the UC/CSU "B" or "G" requirement.

AP ENGLISH LITERATURE SEMINAR	001703	GRADE 12	NON A-G
<p>AP English Literature and Composition Seminar will be offered during the third trimester. The course will afford students the opportunity to apply learning acquired during the Advanced Placement class. Students will complete a final project that demonstrates their learning and understanding and/or shows how this learning translates into an action or a product. The seminar will allow students to earn elective credit as they continue to develop their understanding of literary devices, their appreciation of a wide range of literary genres, and their understanding of how literary works are a reflection of historical moments, values and culture. This course may be used to meet a PUSD elective graduation requirement.</p>			

EXPOSITORY READING AND WRITING 1-2	000315-000316	GRADE 12	UC/CSU "B","G"
<p>Prerequisite: American Literature 1-2</p>			
<p>Expository Reading and Writing prepares college-bound seniors for the literacy demands of higher education. Students in this rhetoric-based course will become more proficient in expository, analytical, and argumentative reading and writing, increasing their awareness of the rhetorical strategies employed by authors and applying those same strategies to their own writing. This course may be used to meet the UC/CSU "B" or "G" requirement.</p>			

HIGH SCHOOL ENGLISH 1-2	000301-000302	GRADE 9	UC/CSU "B","G"
<p>High School English 1-2 builds on knowledge and skills developed in middle school. Students will continue to develop their thinking-in-writing by practicing a variety of writing modes including description, narration, and literary analysis. Students will learn the basics of the academic essay, developing their understanding of appropriate paragraph structure. Concurrently, they will acquire and use specific skills to read and respond to different genres of literature, including short story, myths and legends, the novel, and assorted non-fiction. Students will continue to practice descriptive, narrative and analytical writing, while also acquainting themselves with reflective writing and formal academic research. They will develop more sophisticated responses to literature, learning to create and support inferences about characters, moods, themes, etc. They will read literary works of greater complexity and scope and thereby prepare themselves for more advanced English courses. This course may be used to meet the UC/CSU "B" or "G" requirement.</p>			

HIGH SCHOOL ENGLISH 3-4	000310-000311	GRADE 10	UC/CSU "B","G"
<p>Prerequisite: High School English 1-2</p>			
<p>Through a thematic approach to the study of literature and written composition, students in High School English 3-4 will broaden their knowledge of literature and its cultural elements (e.g. art, music, dance, politics, etc.). They will improve their ability to understand their connection to literature, develop writing and thinking skills, master punctuation and grammar skills, and further improve listening and speaking skills. Writing modes addressed will include: reflective, interpretive, and evaluative. Also, a research-based controversial issue essay will be required. This course may be used to meet the UC/CSU "B" or "G" requirement.</p>			

HONORS HIGH SCHOOL ENGLISH 1-2	000303-000304	GRADE 9	UC/CSU “B”, “G”
Prerequisite: Teacher recommendation			
<p>Honors HS English 1-2 moves at a more accelerated pace, requires more reading, and deeper critical analysis than High School English 1-2. Honors HS English 1-2 builds on knowledge and skills developed in middle school. Students will continue to develop their thinking-in-writing by practicing a variety of writing modes including description, narration, and literary analysis. Students will learn the basics of the academic essay, developing their understanding of appropriate paragraph structure. Concurrently, they will acquire and use specific skills to read and respond to different genres of literature, including the short story, myths and legends, the novel, and assorted non-fiction. Students will continue to practice descriptive, narrative and analytical writing, while also acquainting themselves with reflective writing and formal academic research. They will develop more sophisticated responses to literature, learning to create and support inferences about characters, moods, themes, etc. They will read literary works of greater complexity and scope, and thereby prepare themselves for more advanced English courses. This course may be used to meet the UC/CSU "B" or "G" requirement.</p>			

HONORS HUMANITIES 1-2	000313-000314	GRADE 10	UC/CSU “B”, “G”
Prerequisite: Teacher recommendation			
<p>Honors Humanities studies man’s relationship with society, nature and himself. Students write in a variety of essay modes including: interpretive, expository, reflective, and persuasive. The course involves library research, outside reading, peer cooperation and formal public speaking. Students begin a survey of Western culture beginning with the Ancient Greeks and continuing through the Enlightenment in order to understand how the historical context in which a piece of writing, music or art is created gives added meaning, as does the cultural or social milieu. This course may be used to meet the UC/CSU "B" or "G" requirement.</p>			

WORLD LITERATURE 1-2	000393-000394	GRADE 12	UC/CSU “B”, “G”
Prerequisite: American Literature 1-2			
<p>Students will develop their own voices and values on a journey of self-discovery through classic and contemporary World Literature. The course will expose them to literary works from a variety of cultures where they can experience the works of writers who view the world from perspectives different from their own. By visiting distant places and times, students will discover not only the riches of human experience and the universality of the human condition; they will also examine worldly and spiritual themes, all the while coming closer to becoming citizens of the world we live in and thinkers considerate of other peoples and their cultures. This course may be used to meet the UC/CSU "B" or "G" requirement.</p>			

MATHEMATICS

UC/CSU "C"

AP CALCULUS AB 1-2	001060-001061	GRADES 10-12	UC/CSU "C", "G"
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Prerequisite: Grade of B or higher in Honors Pre-Calculus 1-2 and teacher recommendation

Advanced Placement Calculus AB 1-2 is designed for students who have completed the equivalent of four years of college preparatory mathematics. Students apply skills and information acquired in previous math courses. Topics introduced include development of limits and derivatives, integration, and applications of the derivative and integral. This course specifically prepares the student to take the College Board's Advanced Placement exam for Calculus AB. This course has been approved to meet the UC/CSU "C" or "G" requirement.

AP CALCULUS AB 1-2 SEMINAR	001705	GRADES 10-12	NON A-G
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This course is a culmination of Calculus AB. It will focus on developing and reinforcing students' conceptual understanding of calculus and their ability to apply knowledge to solve problems. Emphasis will be placed on the acquisition of critical thinking, reading, and writing skills specific to college-level mathematics. Students will develop problem-solving skills through investigations of free-response problems. Students will develop effective communication skills through clear, concise written and verbal explanations of their solutions in a variety of mathematical contexts. This course may be used to meet a PUSD elective graduation requirement.

AP CALCULUS BC 1-2	001062-001063	GRADES 11-12	UC/CSU "C", "G"
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Prerequisite: Successful completion of AP Calculus AB 1-2

This course is for students who have completed four years of college preparatory math including Calculus AB. New topics covered include parametric equations, vector functions, polar curves, advanced integration techniques, infinite series, and Taylor polynomials. This course prepares the student to take the Advanced Placement exam for Calculus BC. This course may be used to meet the UC/CSU "C" or "G" requirement.

AP CALCULUS BRIDGE FROM AB TO BC/SEMINAR	001704	GRADES 11-12	NON A-G
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This course supports students in preparation for the AP Calculus BC exam and extends learning in college-level mathematics. During this course, students will take a more in-depth look at topics from differential and integral calculus as well as differential equations and series. This course may be used to meet a PUSD elective graduation requirement.

AP STATISTICS 1-2	001064-001065	GRADES 11-12	UC/CSU "C", "G"
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Prerequisite: Grade of C or higher in Integrated Math 3a-3b or above

The multidisciplinary aspects and applications of statistics make it one of the most rewarding classes to take. The study blends the rigor, calculations and deductive thinking of mathematics, the real work examples and problems of social science, the decision-making needs of business and medicine and the laboratory methods and experimental procedures of the natural sciences. This course designed to prepare students to take the Advanced Placement exam for Statistics. This course may be used to meet the UC/CSU "C" or "G" requirement.

Teacher Comments: Successful students have strong written and verbal communication skills with a solid math background and an excellent work ethic.

COLLEGE ALGEBRA 1-2

001054-001055

GRADES 10-12

UC/CSU "C", "G"

Prerequisite: Grade of B or higher in Integrated Math 3a-3b or above

This course focuses on a study of a variety of mathematical functions. Upon satisfactory completion of this course, the student will be ready to enroll in an accredited college level Algebra course. This course provides an opportunity for a student to enter college without having to take remedial mathematics. This course is highly recommended for seniors who will be entering a 2-year community college and students who need to continue with math in their senior year to prepare for entry into a 4-year university. This course may be used to meet the UC/CSU "C" or "G" requirement.

Teacher Comments: We would like our students to have a basic understanding of algebraic concepts and a willingness to expand on these fundamental skills. With continued practice both at home and in class, students will develop a stronger understanding and appreciation of the topics necessary for success in Trigonometry, Statistics, Pre-Calculus, or Business Calculus courses.

HONORS PRE-CALCULUS 1-2

001050-001051

GRADES 10-12

UC/CSU "C", "G"

Prerequisite: Grade of B or higher in Integrated Math 3a-3b or College Algebra 1-2

Honors Pre-calculus 1-2 is designed for the advanced college-preparatory student and will provide the foundation for students to proceed into Calculus. The major content will focus on: mathematical induction, vector algebra, function analysis, exponential and logarithmic functions, and circular and trigonometric functions. This course has been approved to meet the UC/CSU "C" or "G" requirement.

Teacher Comments: Students who take this course should know that Honors Pre-Calculus is a gateway to AP Calculus AB and should be prepared for the level of rigor to be increased when compared to previous courses. Strong study skills are critical for success.

INTEGRATED MATH 1a-1b

001012-001013

GRADES 9-12

UC/CSU "C"

Integrated Mathematics 1 uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. The critical areas, organized into units, deepen and extend understanding of linear relationships. The Mathematical Practice Standards together with the content standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. This course has been approved to meet the UC/CSU "C" requirement.

Teacher Comments: Students will be expected to complete 15-25 minutes of homework, five times per week. They will be given both team and Individual tests to prove mastery. They will be expected to work collaboratively on a daily basis while working through the core problems for the day. Students must be willing to persevere (struggle) to complete assignments. This may include any or all of the following: using "hints" in the electronic book, Khan academy videos, use of peer or professional tutor or seek help from the teacher.

INTEGRATED MATH 2a-2b	001016-001017	GRADES 9-12	UC/CSU "C"
Prerequisite: Integrated Math 1a-1b			
<p>The focus of Integrated Mathematics 2 is on quadratic expressions, equations, and functions. The link between probability and data is explored through conditional probability and counting methods, including their use in making and evaluating decisions. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Circles with their quadratic algebraic representations round out the course. The Mathematical Practice Standards together with the content standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. This course has been approved to meet the UC/CSU "C" requirement.</p>			

INTEGRATED MATH 3a-3b	001018-001019	GRADES 9-12	UC/CSU "C"
Prerequisite: Integrated Math 2a-2b			
<p>In Integrated Mathematics 3 students apply the accumulation of learning from previous courses, with content grouped into four critical areas. They apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational, and radical functions. They expand their study of right triangle trigonometry to include general triangles. Students bring together all of their experience with functions and geometry to create models and solve contextual problems. The Mathematical Practice Standards together with the content standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. This course has been approved to meet the UC/CSU "C" requirement.</p>			
<p><i>Teacher Comments: Students entering these courses should be able to factor trinomials, solve quadratics using the quadratic formula, factor or complete the square, graph quadratic equations, apply basic trig ratios (sin, cos, tan), and work with complex numbers. Students should expect in these courses to learn how to graph transformations of functions and work with logarithms, polynomials, and trigonometry, among other concepts. Expect a minimum of 30 minutes of homework nightly for a typical student.</i></p>			

MATHEMATICS ACCELERATION (MATH ACCEL)	001003	GRADE 9	NON A-G
Prerequisite: Teacher recommendation			
<p>This course will provide a review of middle school mathematics and Algebra skills. The course develops skills in the language and applications of algebra, including development of the real number system, variables, mathematical expressions, linear equations, problem solving, inequalities, polynomials, special products and factoring, graphs, relations and functions, quadratic equations, rational and radical expressions, and basic statistics and probability. It also includes middle school topics such as the study of whole numbers, integers, decimals, fractions, percents, and scientific notation. This course may be used to meet a PUSD elective graduation requirement.</p>			
<p><i>Teacher Comments: This course is designed for the student who struggles in math even though they complete all of their assignments and work hard. The Math Accel student needs and wants extra support. This student has a willingness to persevere and to work hard. There will be daily cooperative learning experiences where students are expected to work in teams to complete the class assignments. Homework is assigned daily and should take about 15 to 30 minutes.</i></p>			

STATISTICS	001039	GRADES 11-12	UC/CSU "C","G"
Prerequisite: Grade of C or higher in Integrated Math 3a-3b			
<p>Statistics is a one-trimester college preparatory course, which will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Probability and counting methods are included. Students will apply descriptive statistics to a wide range of disciplines. This course may be used to meet the UC/CSU "C" or "G" requirement.</p>			

TRIGONOMETRY	001037	GRADES 11-12	UC/CSU "C","G"
Prerequisite: Grade of C or higher in Integrated Math 3a-3b			
<p>Trigonometry is a one-trimester course. The topics covered include special triangles, the unit circle, using the graphing calculator, proving trigonometric identities, solving equations, solving triangles, angular velocity, and the laws of sines and cosines. This course may be used to meet the UC/CSU "C" or "G" requirement.</p>			

SCIENCE

UC/CSU “D”

AP BIOLOGY 3-4	001232-001233	GRADES 10-12	UC/CSU “D”, “G”
Prerequisite: Grade of B or higher in Biology 1-2, C or higher in Chemistry 1-2 or B or higher in Geoscience; Completion of summer assignment			
AP Biology is intended to be equivalent to an introductory Biology course found at the freshman university level, and reflects the outline provided by the College Board. This course features an inquiry-based approach to biology’s four Big Ideas: Evolution, Energy Processes, Information, and Interactions. The aim of this course is to provide the conceptual framework and analytical skills necessary to understand and assess the rapidly growing science of biology. This course may be used to meet the UC/CSU “D” or “G” requirement.			
AP BIOLOGY 3-4 SEMINAR	001714	GRADES 10-12	NON A-G
This is an extension of the AP Biology 1-2 course sequence. It is intended to provide the content knowledge and skills required in an introductory Biology course at the university level. Primary emphasis in the course is on developing an understanding of concepts rather than memorizing terms and technical details. Essential to the conceptual understanding are the following: a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology and application of biological knowledge and critical thinking to environmental and social concerns. This course may be used to meet a PUSD elective graduation requirement.			
<i>Teacher Comments: AP Biology is a great class that builds upon the concepts and ideas learned in freshman biology, while continuing to develop students’ independent lab skills. The course starts off with a summer reading, which is then presented individually or in small groups. Over the course of the year we cover about 1.5 chapters per week, with chapter notes and online activities for each chapter. In class we do activities, conduct pen and paper investigations, and design and carry out our own labs on a variety of subjects; from pill bug behavior to bacterial transformation. Students also learn how to conduct and apply basic statistical tests to their research results. The year long class is best suited for those students who enjoy working hard and learning new things. A good reading ability and work ethic are imperative. Much work is done independently, but many labs and their corresponding work are done with a partner. We occasionally work in larger groups, but grades are usually individual.</i>			
AP CHEMISTRY 3-4	001242-001243	GRADES 11-12	UC/CSU “D”, “G”
Prerequisite: Grade of B or higher in Chemistry 1-2, B or higher in Integrated Math 3a-3b and completion of or concurrent enrollment in Honors Pre-Calculus 1-2			
The course is a rigorous investigation of the principles of chemistry. Emphasis is placed on qualitative and quantitative understanding of thermodynamics, stoichiometry, kinetics and equilibrium. The laboratory component stresses a hands-on approach using contemporary scientific equipment. The curriculum parallels general chemistry courses at the university level. This course may be used to meet the UC/CSU “D” or “G” requirement.			
AP CHEMISTRY 3-4 SEMINAR	001716	GRADES 11-12	NON A-G
AP Chemistry Seminar will serve as the culminating trimester for the previous two trimesters of AP Chemistry. This course continues to support students in preparation for the AP Exam and extends learning for college readiness. The course provides additional opportunities for laboratory experience in the core content areas and extends the core curriculum to include applications of organic chemistry and electrochemistry. This course may be used to meet a PUSD elective graduation requirement.			

AP ENVIRONMENTAL SCIENCE 1-2	001244-001245	GRADES 11-12	UC/CSU “D”, “G”
Prerequisite: Grade of C or higher in Biology 1-2 and Chemistry 1-2			
Advanced Placement Environmental Science is a rigorous, college-level course covering the full range of curriculum required as preparation for the AP Exam. With sustainability as a theme, selected topics include Ecosystems, Biodiversity, Human Ecology, Pollution, Resource Management and Energy Use. AP Environmental Science is a course, which will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will identify and analyze environmental problems, both natural and man-made, and evaluate the relative risks associated with these problems. Students will also examine alternative solutions for resolving and/or preventing these problems. This course may be used to meet the UC/CSU “D” or “G” requirement and the PUSD Physical Science requirement.			
AP ENVIRONMENTAL SCIENCE 1-2 SEMINAR	001713	GRADES 11-12	NON A-G
This is the culminating trimester of AP Environmental Science 1-2. It continues to support students in preparation for the AP exam and extended learning for college readiness. It provides additional opportunities for laboratory science in the core content areas and extends the core curriculum to include a deeper understanding in the areas of air and water pollution. Students have significant scientific field experiences. This course may be used to meet a PUSD elective graduation requirement.			
AP PHYSICS C 1A-1B MECHANICS	001262-001263	GRADES 11-12	UC/CSU “D”, “G”
Prerequisite: Completion of or concurrent enrollment in Honors Pre-Calculus 1-2; Calculus strongly recommended.			
Advanced Placement Physics C 1A-1B course forms the first part of the college sequence that serves as the foundation in physics for college physics students. The topic of mechanics will be the emphasis of the course; however, other related topics may be covered. Strong emphasis is placed on laboratory experience and problem solving. This course may be used to meet the UC/CSU “D” or “G” requirement.			
AP PHYSICS C 1A-1B MECHANICS SEMINAR	001708	GRADES 11-12	NON A-G
AP Physics C: Mechanics Seminar extends the study of mechanics as it is manifested in the form of waves. The characteristics and behaviors of waves will be the underlying principles upon which laboratory investigations are based. The course provides additional opportunities for laboratory experiences in the core content areas of mechanics and extends the core curriculum to include content selected from the following topics: sound, fluid mechanics, and special relativity. This course extends learning that supports college-level literacy in the sciences. This course may be used to meet a PUSD elective graduation requirement.			

BIOLOGY OF THE LIVING EARTH 1-2 (FORMERLY BIOLOGY 1-2)	001236-001237	GRADES 9-11	PENDING APPROVAL FOR UC/CSU "D", "G"
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Prerequisite: Completion of or concurrent enrollment in Integrated Math 1

Biology of the Living Earth 1-2 is a laboratory-based college preparatory course that integrates the high school Life Science (LS), Earth and Space Science (ESS), and Engineering, Technology, and Applications of Science (ETS), Performance Expectations (PE) from the California Next Generation Science Standards (NGSS). The fundamental concepts necessary to understand biology have been selected from the Disciplinary Core Ideas (DCIs) of NGSS. These core ideas form the basic biological content for investigating complex real world ideas and problems. Students employ two general tools in their investigation activities: Cross Cutting Concepts (CCCs), and Science and Engineering Practices (SEPs). Students will use CCCs to make connections across seemingly disparate biological disciplines, and to connect new learning to prior experiences. Throughout the course, students will investigate with activities, experiments, demonstrations, discussions, and observations of real-world phenomena and the evaluation and analysis of published materials. This course is pending approval to meet the UC/CSU "D" and "G" requirements.

CHEMISTRY IN THE EARTH SYSTEM 1-2 (FORMERLY CHEMISTRY 1-2)	001246-001247	GRADES 10-12	PENDING APPROVAL FOR UC/CSU "D", "G"
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Prerequisite: Grade of B or higher in Biology 1-2 and concurrent enrollment in Integrated Math 2 or above

This course is a laboratory based college preparatory science course which will focus on major principles and concepts of chemistry. This course integrates the High School Physical Science (PS), Earth and Space Science (ESS), and Engineering, Technology, and Applications of Science (ETS) Performance Expectations (PE) from the California Next Generation Science Standards (NGSS). The fundamental concepts necessary to understand chemistry have been selected from the Disciplinary Core Ideas (DCIs) of NGSS. These core ideas form the basic chemistry content for investigating complex real world ideas and problems. Students employ two general tools in their investigation activities: Cross Cutting Concepts (CCCs), and Science and Engineering Practices (SEPs). Students encounter chemistry through real world phenomena to heighten relevance and to emphasize that chemical laws are used to describe, explain, and make predictions about all matter, and that chemistry explains processes on earth and in space. Throughout the course, students will investigate with activities, experiments, demonstrations, discussions, and observations of real-world phenomena. Students will clearly and persuasively communicate their claims as they obtain and evaluate evidence derived from these investigations. This course is pending approval to meet the UC/CSU "D" requirement.

Teacher comments: This course emphasizes a hands-on, laboratory approach to the chemistry concepts students are learning. Successful students spend three to five hours each week reading, completing lab write-ups and problem sets outside of class. A basic algebra understanding of variables in equations is important for much of the math in chemistry. Students find that the quantitative nature of the class means that they use math most days in learning chemistry.

CHEMISTRY AND AGRISCIENCE <i>This course is also listed under Career Technical Education</i>	000944-000945	GRADES 10-12	UC/CSU "D"
Prerequisite: Concurrent enrollment in another Agricultural Pathway course or prior completion of any agricultural course, and concurrent or prior completion of Integrated Math 2a-2b			
This course explores the physical and chemical nature of soil as well as the relationships between soil, plants, animals and agricultural practices. Students will examine properties of soil and land and their connections to plant and animal production. Using knowledge of scientific protocols as well as course content, students will develop an Agriscience research program to be conducted throughout the first trimester of the course. Additionally, students will develop and present a capstone soil management plan for agricultural producers, using the content learned throughout the course. This course has been approved to meet the UC "D" requirement and the PUSD Physical Science requirement.			

FUNDAMENTALS OF (PHYSICS AND) CHEMISTRY 1	001214	GRADES 10-12	NON A-G
Prerequisite: Concurrent enrollment in Integrated Math 2b or higher			
Poway High utilizes one trimester of this yearlong college preparatory elective science course. Using a strictly computational and mathematical approach, the course has embedded state standards into key topics of high school physics and chemistry including projectiles, free fall, momentum, energy, electricity/magnetism, circuits, spectral analysis, heat transfer, solution chemistry, bonding, and chemical reactions. The key component of the course is the extensive review and constant use of the necessary computational and mathematical skills essential for the study of these topics. Fundamentals of Physics and Chemistry 1-2 is designed to make high school chemistry and physics courses accessible as well as provide a solid coverage of topics in the physical sciences. This course has been submitted for approval to meet the UC/CSU "G" requirement. This course is approved for 5 credits toward the PUSD Physical Science requirement.			

GEOSCIENCE 1-2	001212-001213	GRADES 10-12	PENDING APPROVAL FOR UC/CSU "D", "G"
Prerequisite: Biology 1-2			
This course is a two-trimester laboratory based college preparatory course which will give students a strong background in the earth and space sciences. This course integrates the High School Earth and Space Science (ESS), Engineering, Technology, and Applications of Science (ETS) and some Physical Science (PS) Performance Expectations (PE) from the California Next Generation Science Standards (NGSS). The fundamental concepts necessary to understand Geoscience have been selected from the Disciplinary Core Ideas (DCIs) of NGSS. These core ideas form the basic Geoscience content for investigating complex real world ideas and problems. Students employ two general tools in their investigation activities: Cross Cutting Concepts (CCCs), and Science and Engineering Practices (SEPs). The course includes challenging activities, laboratory exercises, field experiences, and class projects in a collaborative work environment. Students enrolled in this class will learn by completing labs and laboratory reports, exams, and oral presentations. This course focuses on the dynamic interrelationships between the atmosphere, geosphere, hydrosphere, biosphere, and the earth-universe system. Geoscience is taught from an interdisciplinary perspective and each topic in the class will illustrate connections between the different disciplines in science, economics, and other global issues. This course has been approved to meet the UC "D" requirement for Laboratory Science or the UC "G" requirement.			

HUMAN BIOLOGY 1-2	001226-001227	GRADES 11-12	UC/CSU “D”,“G”
Prerequisite: Grade of C or higher in Biology 1-2; Chemistry recommended			
Human Biology introduces physiology and anatomy of the human body. Major organ systems that will be investigated include nervous, immune, digestive, endocrine, etc. Contemporary scientific issues affecting biology will be integrated into course curriculum. Topics may include DNA’s role in behavior, the ethics of cloning and fetal tissue research, cancer and other diseases. This course is designed to support students interested in health-related careers. Students who are interested in health-related careers (such as biotechnology, nursing, dental assistant, physical therapy assistant, medical technician, EMT, firefighter; and/or planning to pursue a certificate degree (or AA) at a community college are the primary candidates. This course may be used to meet the UC/CSU “D” or “G” requirement and meets the PUSD Biological Science requirement.			

PHYSICS IN THE UNIVERSE 1-2 (FORMERLY PHYSICS 1-2)	001248-001249	GRADES 10-12	PENDING APPROVAL FOR UC/CSU “D”,“G”
Prerequisite: Concurrent enrollment in Integrated Math 3a-3b or above			
Physics in the Universe 1-2 is a laboratory-based college preparatory course that integrates the high school Physical Science (PS), Earth and Space Science (ESS), and Engineering, Technology, and Applications of Science (ETS) Performance Expectations (PE) from the California Next Generation Science Standards (NGSS). The fundamental concepts necessary to understand physics have been selected from the Disciplinary Core Ideas (DCIs) of NGSS. These core ideas form the basic physics content for investigating complex real world ideas and problems. Students employ two general tools in their investigation activities: Cross Cutting Concepts (CCCs), and Science and Engineering Practices (SEPs). Students will use CCCs to make connections across seemingly disparate physics disciplines, and to connect new learning to prior experiences. SEPs guide the investigative approach to physics phenomena all the way from a student’s introduction, to the exploration, and the formative and culminating student assessments. The course is broken down into five learning segments, spanning content from Physics to Earth Science and Astronomy. Students encounter physics through real world phenomena to heighten relevance and to emphasize that physical laws are used to describe, explain, and make predictions about the physical universe. This course is pending approval to meet the UC/CSU “D” requirement.			

SUSTAINABLE AGRICULTURE - BIOLOGICAL APPROACH 1-2 <i>This course is also listed under Career Technical Education</i>	000699-000700	GRADES 9-12	UC/CSU “D”,“G”
This one year course, organized into four major units, integrates biological science practices and knowledge into the practice of sustainable agriculture. Within each unit of study, specific life science principles integrate with agricultural principles, as students gain knowledge of how the two disciplines inform each other, culminating in the development of a sustainable farm model and portfolio of supporting student research. This course has been approved to meet the UC/CSU “D” or “G” requirement and meets the PUSD Life Science requirement.			

ZOOLOGY 1-2	001260-001261	GRADES 10-12	UC/CSU “D”, “G”
<p>Zoology 1-2 is a more in-depth study of the animal kingdom than is possible in Biology 1-2. Major animal groups will be studied emphasizing many aspects of their anatomy/physiology, evolution, distribution, animal diversity, and ecology. The course includes facilitated discussions, weekly laboratory activities, field studies, projects, field trips, and guest speakers. This course may be used to meet the UC/CSU “D” or “G” requirement and meets the PUSD Life Science requirement.</p>			

LANGUAGE OTHER THAN ENGLISH

UC/CSU "E"

FRENCH 1-2	000405-000406	GRADES 9-11	UC/CSU "E"
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Prerequisite: Strong basic language skills

French 1-2 is a beginning course which develops the four communication skills of listening, speaking, reading, and writing with basic vocabulary, grammar, and idiomatic expressions. Oral and written exercises, both individually and in groups, provide practice to develop these skills. Students are exposed to various aspects of the history and culture of French-speaking countries. This course has been approved to meet the UC/CSU "E" requirement.

FRENCH 3-4	000407-000408	GRADES 9-12	UC/CSU "E", "G"
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Prerequisite: French 1-2

French 3-4 is designed to further develop the four communication skills of listening, speaking, reading, and writing with basic vocabulary, grammar, and idiomatic expressions. Students will increase their vocabulary and the ability to use it in progressively more complicated structures, reinforcing their ability to use previously learned material. Oral and written exercises, both individually and in groups, provide practice to develop these skills. Students are exposed to various aspects of the history and culture of French-speaking countries. This course has been approved to meet the UC/CSU "E" or "G" requirement.

FRENCH 5-6	000409-000410	GRADES 10-12	UC/CSU "E", "G"
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Prerequisite: French 3-4

French 5-6 prepares the student for the more advanced structures and communication activities required at the college level. The four communication skills of listening, speaking, reading, and writing with basic vocabulary, grammar, and idiomatic expressions are practiced more extensively. Students will increase their vocabulary and ability to use it in progressively more complicated structures, reinforcing their ability to use previously learned material. Oral and written exercises, both individually and in groups, provide practice to develop these skills. Students are exposed to various aspects of the history and culture of French-speaking countries. This course has been approved to meet the UC/CSU "E" or "G" requirement.

HONORS FRENCH 7	000415	GRADES 10-12	UC/CSU "E", "G"
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Prerequisite: French 5-6

Honors French 7 continues developing and refining oral and written communication skills. Activities are divided among listening, speaking, reading, and writing. Students will work in small groups, whole class and individual settings as appropriate. Vocabulary development continues in a thematic context as students expand the range of expression. Students also continue mastery of increasingly complex verb and grammatical forms. This course has been approved to meet the UC "E" or "G" requirement.

AP FRENCH LANGUAGE 7-8	000411-000412	GRADES 10-12	UC/CSU “E”, “G”
Prerequisite: Grade of B or higher in French 5-6 and teacher recommendation			
AP French Language 7-8 will further develop and refine the knowledge, skills, and attitudes related to specific themes. Within this context, appropriate emphasis will be placed on student competency in the areas of reading, writing, listening, and speaking. This course has been approved to meet the UC/CSU "E" or "G" requirement.			

GERMAN 1-2	000420-000421	GRADES 9-11	UC/CSU “E”
Prerequisite: Strong basic language skills			
German 1-2 is a beginning class that teaches basic understanding, speaking and writing in German. Daily life and culture is also studied. This course has been approved to meet the UC/CSU “E” requirement.			

GERMAN 3-4	000422-000423	GRADES 9-12	UC/CSU “E”, “G”
Prerequisite: Grade of C or higher in German 1-2			
German 3-4 builds on what has been learning in German 1-2. This course introduces more advanced patterns, requires more speaking, and enables the student to read and understand written texts. This course has been approved to meet the UC/CSU “E” or “G” requirement.			

GERMAN 5-6	000424-000425	GRADES 10-12	UC/CSU “E”, “G”
Prerequisite: Grade of C or better in German 3-4 or teacher recommendation			
German 5-6 covers the basic language structures of German. It refines pronunciation and increases listening and speaking skills. Reading unsimplified texts is a major part of the course. This course has been approved to meet the UC/CSU “E” or “G” requirement.			

AP GERMAN LANGUAGE 7-8	000426-000427	GRADES 10-12	UC/CSU “E”, “G”
Prerequisite: Grade of B or higher in German 5-6 or teacher recommendation			
German 7/8 Advanced Placement will further develop and refine knowledge, skills and attitudes related to specific themes, including current events of German speaking countries, culturally specific happenings, the arts, politics and global issues This course is a demanding course which relies on the maturity and self motivation of the individual student. Considerable independent work is expected. This course has been approved to meet the UC/CSU “E” or “G” requirement.			

AP GERMAN LANGUAGE SEMINAR	001711	GRADES 10-12	NON A-G
The focus of AP German Language Seminar is to further develop a student’s ability to speak, read, and understand the German language and to interact with people from German cultures. The course is conducted in the target language. Selected literary works, including texts, prose, and poetry, plus authentic materials, will be read and analyzed through student discussion, questioning, and theme-based writing. To increase students’ proficiency in the German language, the course offers vocabulary development combined with new grammar constructions including subjunctive, passive voice, and complex sentence structure. Topics will include current events, environmental issues, political and historical texts, and expansion of the topics included in the AP German curriculum: the home, health, tourism, past times, conditional statements, and education. This course may be used to meet a PUSD elective graduation requirement.			

SPANISH 1-2	000470-000471	GRADES 9-12	UC/CSU “E”
Prerequisite: Strong basic language skills			
Spanish 1-2 is a beginning course which develops the four communication skills of listening, speaking, reading, and writing with basic vocabulary, grammar, and idiomatic expressions. Oral and written exercises, both individually and in groups, provide practice to develop these skills. Students are exposed to various aspects of Spanish speaking history and culture. This course has been approved to meet the UC/CSU “E” requirement.			
SPANISH 3-4	000472-000473	GRADES 9-12	UC/CSU “E”, “G”
Prerequisite: Grade of C or higher in Spanish 1-2			
Spanish 3-4 is designed to further develop the four communication skills of listening, speaking, reading, and writing with basic vocabulary, grammar, and idiomatic expressions. Students will increase their vocabulary and ability to use it in progressively more complicated structures, reinforcing their ability to use previously learned material. Oral and written exercises, both individually and in groups, provide practice to develop these skills. Students are exposed to various aspects of the Spanish speaking world. This course has been approved to meet the UC/CSU "E" or "G" requirement.			
SPANISH 5-6	000474-000475	GRADES 9-12	UC/CSU “E”, “G”
Prerequisite: Grade of C or higher in Spanish 3-4			
Spanish 5-6 prepares the student for the more advanced structures and communication activities required at the college level. The four communication skills of listening, speaking, reading, and writing with basic vocabulary, grammar, and idiomatic expressions are practiced more extensively. Students will increase their vocabulary and ability to use it in progressively more complicated structures, reinforcing their ability to use previously learned material. Oral and written exercises, both individually and in groups, provide practice to develop these skills. Students are exposed to various aspects of Hispanic history and culture. This course has been approved to meet the UC/CSU “E” or “G” requirement.			
SPANISH 7-8	000476-000477	GRADES 9-12	UC/CSU “E”, “G”
Prerequisite: Grade of C or higher in Spanish 5-6			
Spanish 7-8 will further develop and refine knowledge, skills, and attitudes related to specific themes, including but not limited to traveler's survival, Hispanics in the United States, and history-geography. Within this context, appropriate emphasis will be placed on student competency in the areas of reading, writing, listening, and speaking. This course has been approved to meet the UC/CSU “E” or ‘G” requirement.			
HONORS SPANISH 8	000497	GRADES 10-12	UC/CSU “E”, “G”
Honors Spanish 8 will further develop and refine knowledge, skills, and attitudes related to specific themes. Grammar instruction will be in-depth with sufficient preparation to continue on to Advanced Placement Spanish. Within this context, appropriate emphasis will be placed on student competency in the areas of reading, writing, listening, and speaking. This course has been approved to meet the UC/CSU “E” or “G” requirement.			

AP SPANISH LANGUAGE 1-2	000484-000485	GRADES 10-12	UC/CSU “E”, “G”
Prerequisite: Grade of B or higher in Spanish 5-6 and teacher recommendation (<i>interview required for 10th grade</i>)			
Advanced Placement Spanish language refines the skills required for advanced work equivalent to a third year college level course and for the AP Language examination. Extensive reading, writing, and speaking practice increases the competency level to that required on the AP examination. Selected literary works are analyzed. This course has been approved to meet the UC/CSU "E" or "G" requirement.			
AP SPANISH LANGUAGE SEMINAR	001712	GRADES 10-12	NON A-G
The focus of AP Spanish Language Seminar is to continue to develop a student’s ability to speak, read, write, and understand increasingly complex levels of the Spanish language and to function with people of Spanish cultures. The course is conducted in the target language. Selected literary works, including texts, prose, and poetry, plus authentic materials, will be read and analyzed through student discussion, questioning, and theme based writing. The course offers vocabulary development combined with grammar instruction to increase students’ proficiency in the Spanish language. Themes will include current events specific to commerce and mankind, and an expansion of the themes included during AP Spanish: the home, health, the environment, tourism, pastimes, sports, and education. This course continues to support students in preparation for future Spanish experiences and extends learning for college readiness. Selected literary works will be analyzed through student discussion and theme-based writing. This course will emphasize literature, i.e, Pablo Neruda poetry, Carlos Fuentes short stories, and other selections from Latin American authors from <i>Abriendo Puertas: Anthology</i> . Additionally, the course will emphasize film and art appreciation to include the genre of magical realism. This course may be used to meet a PUSD elective graduation requirement.			

AP SPANISH LITERATURE 1-2	000486-000487	GRADES 10-12	UC/CSU “E”, “G”
Prerequisite: Grade of B or higher in Spanish 5-6 and teacher recommendation			
The Advanced Placement Spanish Literature and Culture course is a two-trimester survey of the Hispanic literary tradition. The course is designed to expose students to major Peninsular, Latin American, and Hispanic American works, from the medieval period through the twentieth century. Cultural, historical, and sociopolitical contexts are introduced as a backdrop for a deeper understanding of the different genres and periods covered. Students will be taught literary analysis and terminology. They will be expected to read the Spanish text and be able to analyze and discuss critically, both orally and in written form. This course has been approved to meet the UC/CSU “E” or “G” requirement. Students who meet this requirement will also qualify to take the Advanced Placement Spanish Language Examination.			

VISUAL AND PERFORMING ARTS

UC/CSU “F”

VISUAL ARTS

3D COMPUTER ANIMATION 1-2 <i>This course is also listed under Career Technical Education</i>	000857-000858	GRADES 9-12	UC/CSU “F”
<p>3D Computer Animation is an in-depth hands-on course that allows students to learn transferable skills and concepts used in the work force and in our highly technological society related to the fields of computer design and virtual reality. Students will concentrate on the principles and elements of design and theoretical ideas of art/design, broadening the students’ creativity and cultural awareness to develop innovative and creative computer-aided graphics/design and virtual reality. This course has been approved to meet the UC/CSU “F” requirement and the PUSD Fine and Practical Arts requirements.</p>			
<p><i>Teacher Comments: 3D Computer Animation 1-2 focuses on the art of 3D computer animation. Students will have fun as they learn how to create 3D models, characters, and their very own animations to impress their friends and family. Students will learn the basics of the principles of animation, design, animation software (3D Studio Max), 3D modeling, storyboard development, script writing, and character development. Toward the end of the course, students will also work in a production group to create a small-animated movie. Students will have the opportunity to self-express and communicate their own ideas through modeling, animation and story development. They will analysis formally and aesthetically their group and individual work. Students will experience working with different mediums to create storyboards and to design their own animated scenes and short stories. The course work is primarily in class with little homework.</i></p>			

AP STUDIO ART: 2D DESIGN 1-2 (PHOTOGRAPHY) <i>This course is also listed under Career Technical Education</i>	000157-000158	GRADES 10-12	UC/CSU “F”, “G”
<p>Prerequisite: Photography 1-4 and teacher recommendation</p>			
<p>Advanced Placement Studio Art: 2D Design provides instruction for the highly skilled exceptional students in two-dimensional design. The course assists these students in the preparation of a 2D Portfolio. It is designed to address a very broad interpretation of two-dimensional design issues. This type of design involves purposeful decision-making about how to use the elements and principles of art in an integrative way. The elements of design (line, shape, space, form, texture, value and color) are like a palette of possibilities that artists use to express themselves. The principles of design help guide artists in making decisions about how to organize the elements on a picture plane in order to communicate content. These principles include contrast, emphasis, balance, pattern, rhythm, movement and unity. Portfolio preparation involves a significant time commitment and is, therefore, intended for motivated students with advanced skills who are seriously dedicated to studying art. This course has been approved to meet the UC/CSU “F” or “G” requirement.</p>			

AP STUDIO ART: 3D DESIGN 1-2 (CERAMICS) <i>This course is also listed under Career Technical Education</i>	000159-000160	GRADES 10-12	UC/CSU "F", "G"
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Prerequisite: Ceramics 3-4 and teacher recommendation

Advanced Placement Studio Art: 3D Design provides instruction for the highly skilled exceptional students in 3D Design. The course assists these students in the preparation of a Three-Dimensional Design Portfolio. It is designed to address a very broad interpretation of sculpture issues in depth and space. These may include mass, volume, form, plane, light, and texture. Such elements and concepts can be articulated through additive, subtractive, and/or fabrication processes. Portfolio preparation involves a significant time commitment and is, therefore, intended for motivated students with advanced skills who are seriously dedicated to studying art. This course has been approved by meet the UC/CSU "F" or "G" requirement.

AP STUDIO ART: DRAWING 1-2 <i>This course is also listed under Career Technical Education</i>	000151-000152	GRADES 10-12	UC/CSU "F", "G"
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Prerequisite: Drawing and Painting 1-4 and teacher recommendation

Advanced Placement Studio Art: Drawing provides instruction for the highly skilled exceptional students in drawing, painting, and three dimensional design. The course assists these students in the preparation of a portfolio for the Advanced Placement program in Studio Art. Portfolio preparation involves a significant time commitment and is, therefore, intended for motivated students with advanced skills who are seriously dedicated to studying art. It may be repeated for credit. This course has been approved to meet the UC/CSU "F" or "G" requirement.

ARCHITECTURAL DESIGN (AD) 1-2 <i>This course is also listed under Career Technical Education</i>	000846-000847	GRADES 9-12	UC/CSU "F", "G"
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Architectural Design includes the study and application of the elements and principles of design, the study of the history of ancient architecture from Catal Huyuk to the Ancient Baroque and its relevant vocabulary and structural devices, and an introduction to basic sketching and technical drawing skills. Students will experience working with different mediums (a variety of different pencils, charcoal, pen and ink, watercolor, tempera, and clay) to copy ancient structures and to design their own structures using various construction devices. Architectural Design 1-2 meets PUSD Fine Art or Practical Art credit, PUSD Computer Literacy/Competency, and UC/CSU "F" or "G" Elective Credit (Students must complete 1 and 2 to receive UC/CSU "F" credit).

Teacher Comments: Architectural Design 1-2 focuses on the art of architecture. Students will study the history of architecture and design a set of architectural plans using Computer Aided Design software (Autodesk Revit) of their dream home. Students will have fun as they create a 3D model of their future dream house and create an interior design plan. The course includes the study and application of the elements and principles of design, the study of the history of ancient architecture from Stonehenge to Baroque and its relevant vocabulary and structural devices, and an introduction to basic sketching and technical drawing skills. The course work is primarily in class with little homework.

ART & HISTORY OF FLORAL DESIGN 1-2 <i>This course is also listed under Career Technical Education</i>	000174-000175	GRADES 9-12	UC/CSU "F"
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Art and History of Floral Design 1-2 provides an introduction to artistic and creative perception including aesthetic valuing through a series of projects in various media including tempera, pencil, flowers, tile, and a variety of papers. Students are also introduced to the elements and principles of visual art design such as line, shape/form, color, balance, and emphasis using a series of floral-based projects to explore the connections, relations, and application to visual arts design. Students will research and study floral trends to understand and develop an appreciation for floral design within historical and cultural, formal and casual, ceremonial, and traditional, including an understanding that floral designs are affected by society, culture, history, politics, and economic influence. Various assignments based on abstract two- and three-dimensional designs, historical

culture and theory, color theory, and analytical critiques of various floral art works using design vocabulary in conjunction with the development of technical skills in floral art will serve as a foundation for more complex works such as multi-part floral designs and creative expression through wedding consultations. This course has been approved to meet the UC/CSU "F" requirement.

CERAMICS 1-2	000115-000116	GRADES 9-12	UC/CSU "F"
<p>Students enrolled in Ceramics 1-2 will be introduced to the basic elements and principles of art through exploration in various ceramic techniques. This course will provide opportunities for the student through guided experiences, discussion, and explorations that emphasize art criticism, as well as art production. This course has been approved to meet the UC/CSU "F" requirement.</p>			

CERAMICS 3-4	000117-000118	GRADES 9-12	UC/CSU "F", "G"
<p>Prerequisite: Ceramics 1-2</p>			
<p>Students enrolled in Ceramics 3-4 will apply more advanced elements and principles of art through exploration in various ceramic techniques. This course will provide opportunities for the student through guided experiences, discussion, and explorations that emphasize art criticism, as well as art production. This course has been approved to meet the UC/CSU "F" or "G" requirement.</p>			

DIGITAL MEDIA PRODUCTION 1-2 <i>This course is also listed under Career Technical Education</i>	000998-000999	GRADES 9-12	UC/CSU "F"
<p>Students will learn to create short films (vignettes) from idea to inception. This course provides introductory and intermediate training in digital media production. This course covers the following: operation of video cameras, digital video editing equipment, digital audio editing equipment, lighting equipment, multi-track digital recorders, video recorders, compact disc & DVD recorders and rendering. Instruction includes basic development of treatments, storyboarding, script writing, and production concepts. Students will use equipment, which includes Final Cut Pro video & audio editing software, Digidesign Pro-tools, audio editing software and digital video cameras. This course has been approved to meet the UC/CSU "F" requirement.</p>			

DIGITAL MEDIA PRODUCTION 3-4 <i>This course is also listed under Career Technical Education</i>	000996-000997	GRADES 9-12	UC/CSU "F"
<p>Prerequisite: Digital Media 1-2</p>			
<p>This course is a continuation of Digital Media Production 1-2. In this course, students take the skills learned in the first course of the sequence and choose areas in which to specialize (writing, directing, acting, producing, storyboarding, scheduling, cinematography, lighting design, audio engineering, and editing). Students develop advanced skills within their areas of specialization and collaborate on projects with students who are specializing in the other areas of digital media production. This course will expose students to the proper use of state-of-the-art film and video production tools as well as access to professional seminars from industry professionals. They will learn the vocabulary of film and use it to express themselves clearly and concisely in their writings for that industry. They will be using industry standards in computer hardware and editing software. Most important is the art of filmmaking and the creative process that precedes any film or television project. This page-to-film process can be a painstaking endless series of creating, writing, rewriting, collaboration, and more rewrites. Students will study the impact of film and television on society from its social, economic, and political viewpoint. Films will be previewed for students in class and after school. Students are expected to know the history of filmmaking and the technology that advances the art form. This course has been approved to meet the UC/CSU "F" requirement.</p>			

DRAWING AND PAINTING 1-2	000130-000131	GRADES 9-12	UC/CSU "F"
<p>Drawing and Painting 1-2 is designed for students who have an interest in developing their drawing and painting skills. Students will have an opportunity to produce, view, discuss, and analyze a wide variety of paintings and drawings. The class will explore design elements and principles including line, color, form, space, and texture. Composition and technical skills will also be covered. This course may be used to meet the UC/CSU "F" requirement and PUSD Fine Arts requirement.</p>			

DRAWING AND PAINTING 3-4	000132-000133	GRADES 9-12	UC/CSU "F", "G"
<p>Prerequisite: Drawing and Painting 1-2</p>			
<p>Drawing and Painting 3-4 is a course designed for students who have both the interest and talent to further develop their drawing and painting skills. These courses will be conducted in a studio environment which allow students the experience of working in an artistic atmosphere and to participate in the processes used by artists to create works of art including but not limited to the communication of ideas, symbols, moods, or feelings with originality. These processes include conceptualizing, designing, drawing, painting, and finishing a variety of different media. Working through these processes, the student not only gains an appreciation for the artistic process but gains an insight into their own creative abilities. This course will give students a framework in which they may explore other creative outlets of their own. This course has been approved to meet the UC/CSU "F" or "G" requirement.</p>			

INTRODUCTION TO DESIGN (ID) 1-2 <i>This course is also listed under Career Technical Education</i>	000172-000173	GRADES 9-12	UC/CSU "F"
<p>Prerequisite: Grade of C or higher in Integrated Math 1a-1b; recommended to take Introduction to Engineering Design 1 or 2 with ID</p>			
<p>Part of the Project Lead the Way Engineering pathway curricula. The course is an in-depth, project-based course that concentrates on principles of visual design and the design process. Projects focus on design factors such as aesthetics, format, geometric shape and form, perspective drawing, scale, proportion, and presentation techniques. Students use computers as a medium/tool for the design of project components such as sketching techniques, orthographic drawing, and 3D modeling and rendering. Assignment requirements are based on color, form and aesthetics with an emphasis on the stages of the design process and critical thinking. The curriculum involves details around the concept of 'form follows function' aspects and the effects of successful presentation. Students explore various materials and media for self-expression and learn to express opinions through class critiques and oral presentations. Class projects include toy design, abstract pattern design, architectural model building, poster and brochure design, and design of various products such as desktop organizers and amusement park rides. Design tools will include 3D modeling and other computer software. This course has been approved to meet the UC/CSU "F" requirement.</p>			
<p><i>Teacher Comments: Introduction to Engineering Design is a project-based course that concentrates on the Engineering Design process focusing on the Principles and Elements of Design, 3D Modeling, Reverse Engineering, and Design Challenges. Students will learn how to use professional software in designing a toy car and other projects of their very own, such as a marshmallow cannon or automata and building a functional prototype. It is a lot of fun, as students get to work with peers designing and coming up with solutions to engineering problems through competitions or games. The course work is primarily in class with little homework. As part of the national Project Lead the Way Engineering Pathway curricula, students will take a national engineering test to receive college credit to any university or college.</i></p>			

PHOTOGRAPHY 1 <i>This course is also listed under Career Technical Education</i>	000872	GRADES 10-12	UC/CSU "F"
<p>Photography 1 provides a media that allows the student a pragmatic method of application of chemistry, art, and physics, as well as an introduction to vocational possibilities in the field of photography. This course will deal primarily with learning to properly use photo developing equipment and different cameras. Students may receive Fine Arts or Practical Arts credit for this class. This course has been approved to meet the UC/CSU "F" requirement.</p>			
PHOTOGRAPHY 2 <i>This course is also listed under Career Technical Education</i>	000873	GRADES 10-12	UC/CSU "F"
<p>Prerequisite: Photography 1</p>			
<p>Photography 2 will continue fine tuning the technical skills learned in Photography 1. Students will learn to use a camera as a way of communication and creative expression. Imagination, emotion, and aesthetic perception will be stressed through proper organization of photographic elements and composition. The history of photography, and critical evaluation of prints will be emphasized throughout the course. Students may receive Fine Arts or Practical Arts credit for this class. This course has been approved to meet the UC/CSU "F" requirement.</p>			
PHOTOGRAPHY 3-4 <i>This course is also listed under Career Technical Education</i>	000874-000875	GRADES 10-12	UC/CSU "F", "G"
<p>Prerequisite: Photography 2</p>			
<p>Photography 3-4 emphasizes applications of photography; for example, journalism, magazine articles, offset printing (textbook), electronic schematics, portraiture. This course provides the opportunity for students to explore creative and career opportunities within many different areas. Students may receive Fine Arts or Practical Arts credit for these classes. This course has been approved to meet the UC/CSU "F" or "G" requirement.</p>			
SOUND PRODUCTION AND ENGINEERING 1-2 <i>This course is also listed under Career Technical Education</i>	000110-000111	GRADES 10-12	UC/CSU "F" "G"
<p>Prerequisite: High School English 1-2</p>			
<p>Sound Production and Engineering is an introduction to basic Musical Instrument Digital Interface (MIDI) concepts, soundboards and recording devices, performance production and techniques. Topics include soundboard engineering, keyboard programming, sound modules, sequencing, and electronic music production. Students will also gain a working knowledge of the equipment, including computer equipment performances per year to help prepare for their recording experience. Students gain experience in mixing down and outputting source music projects by working with analog and digital mixing technology. This course has been approved to meet the UC/CSU "F" requirement.</p>			
STUDIO ART <i>This course is also listed under Career Technical Education</i>	000150	GRADES 10-12	UC/CSU "F"
<p>Prerequisite: Teacher recommendation</p>			
<p>Studio Art is for those students who have advanced skills in drawing, painting, and three-dimensional design. The course assists these students in preparation of a portfolio for application to, and scholarships to, institutes granting degrees in visual arts. Through oral discussions and writing in research/response journals, the students will address subject, form, and content in works of historical, contemporary, and personal art. This course has been approved to meet the UC/CSU "F" requirement.</p>			

PERFORMING ARTS - CHOIR

CLASSICAL VOCAL ENSEMBLE 1-2	001110-001111	GRADES 10-12	UC/CSU "F"
Prerequisite: Audition and teacher recommendation			
Classical Vocal Ensemble 1-2 is a course for advanced choral musicians. Advanced choral and vocal techniques will be taught. Classical and traditional repertoire will be studied and performed. This is a performance class, and students are expected to participate in all choral activities. Outside time is required. Activities will include school and community performances. The Classical Vocal Ensemble will represent the school at District and state levels in adjudicated festivals. This course has been approved to meet the UC/CSU "F" and the PUSD Fine Arts requirement.			

CONCERT CHOIR 1-2	001120-001121	GRADES 9-12	UC/CSU "F"
Concert Choir 1-2 offers the student of choral music an opportunity to further develop musical skills and to broaden the musical experience through rehearsal and performance. This is a performance class and students are expected to participate in all choral activities. The make up of this class could be mixed voices, women only, or men only. The Concert Choir will represent the school at District and state levels in adjudicated festivals. This course has been approved to meet the UC/CSU "F" requirement and the PUSD Fine Arts requirement.			

WOMEN'S ENSEMBLE 1-2	001118-001119	GRADES 10-12	UC/CSU "F"
Prerequisite: Audition and teacher recommendation			
Women's Ensemble is a course for advanced choral musicians. Advanced choral and vocal techniques will be taught. Classical and traditional repertoire specifically written for women's voices will be studied and performed. This is a performance class, and students are expected to participate in all choral activities. Outside time is required. Activities will include school and community performances. The Women's Ensemble will represent the school at District and state levels in adjudicated festivals. This course has been approved to meet the UC/CSU "F" requirement and the PUSD Fine Arts requirement.			

PERFORMING ARTS - DRAMA

DRAMA 1 <i>This course is also listed under Career Technical Education</i>	000345	GRADES 9-12	UC/CSU "F"
Drama 1 is a survey course which includes many facets of dramatic activity. Included are basic storytelling, voice and diction, reader's theater, pantomime, and improvisational exercises. The students will be requested to visit at least one selected rehearsal or performance of a school play each trimester. This course has been approved to meet the UC/CSU "F" requirement.			
<i>Teacher Comments: Drama 1 is a Career in Technical Education (CTE) class, which means this class will prepare you for a career in theatre performance and production. Drama 1 focuses on basic acting skills, ensemble building, improvisation, and performance analysis and critique. Students will participate in a variety of acting exercises, activities, and assignments to help them learn about the fundamentals of acting. Additionally, students will learn about theatre history and theatre production.</i>			

DRAMA 2 <i>This course is also listed under Career Technical Education</i>	000346	GRADES 9-12	UC/CSU "F"
Prerequisite: Drama 1			
<p>Drama 2 is a course in which students do creative exercises to illustrate characters and situations, as well as improvisational exercises. It is a beginning study of theater with in-depth looks at structure of theater and plays and more improvisations and pantomimes. Students will visit movies and plays and be able to write a critique of them. At least one basic scene and/or series of pantomimes must be presented. Also included is a study of the function of the playwright, the actor, the director, and the technicians. In addition, the students will study the written scripts of four genres: melodrama, comedy, farce, and modern drama. Drama may be applied to the Fine Arts requirement but not the English requirement. This course has been approved to meet the UC/CSU "F" requirement.</p>			
<p><i>Teacher Comments: Drama 2-6 focuses on performance, playwriting, theatre production, and theatre history. Students will participate in a variety of acting exercises, activities, and assignments to help them sharpen their acting skills. Higher level courses (Drama 3-4 and Drama 5-6) will have more challenging assignments. This is a Career and Technical Education (CTE) class and is designed to prepare you for a job in the theatre industry.</i></p>			

DRAMA 3 <i>This course is also listed under Career Technical Education</i>	000347	GRADES 9-12	UC/CSU "F", "G"
Prerequisite: Drama 2 or teacher recommendation			
<p>Drama 3 is an intermediate acting course. Included in the course is a study of the history of the theater and changes in acting styles. Students are expected to perform scenes or plays from classical literature after studying the influences of the various periods on costumes, movement, and makeup. Students are expected to investigate the technical side of theater with regard to designing lighting, costuming, and creating special makeup, along with knowing the function of a playwright, actor, director, and technician. Drama may be applied to the Fine Arts requirement but not the English requirement. This course has been approved to meet the UC/CSU "F" or "G" requirement.</p>			
<p><i>Teacher Comments: Drama 2-6 focuses on performance, playwriting, theatre production, and theatre history. Students will participate in a variety of acting exercises, activities, and assignments to help them sharpen their acting skills. Higher level courses (Drama 3-4 and Drama 5-6) will have more challenging assignments. This is a Career and Technical Education (CTE) class and is designed to prepare you for a job in the theatre industry.</i></p>			

DRAMA 4 <i>This course is also listed under Career Technical Education</i>	000348	GRADES 10-12	UC/CSU "F", "G"
Prerequisite: Drama 3 or teacher recommendation			
<p>Drama 4 is a course in play production. The course includes a detailed study of how plays are produced, designed, costumed, cast, and directed. Specifically, students are expected to choose material, prepare the prompt book, draw a floor plan of the set, draw a set elevation, and design appropriate costumes for each character. Additionally, students are expected to collect a "makeup morgue," to arrange the rehearsal schedule, and to act in two scenes for other directors. A continuing study is made of theater history and additional styles and terminology. Students will begin to learn principles of directing and technical theater as well as produce a trimester project and participate in scene work. This is a performance class. Drama may be applied to the Fine Arts requirement. This course has been approved to meet the UC/CSU "F" or "G" requirement.</p>			
<p><i>Teacher Comments: Drama 2-6 focuses on performance, playwriting, theatre production, and theatre history. Students will participate in a variety of acting exercises, activities, and assignments to help them sharpen their acting skills. Higher level courses (Drama 3-4 and Drama 5-6) will have more challenging assignments. This is a Career and Technical Education (CTE) class and is designed to prepare you for a job in the theatre industry.</i></p>			

DRAMA 5 <i>This course is also listed under Career Technical Education</i>	000349	GRADES 10-12	UC/CSU "F", "G"
Prerequisite: Drama 4 or teacher recommendation			
<p>Drama 5 continues the application of the play direction techniques introduced in Drama 4. Students are expected to select a trimester project and carry it to culmination in presentation and evaluation by an audience. In addition, students are expected to perform in scenes from classic, modern British, and modern American dramatic literature, as well as to research a selected topic. Students are also expected to develop a prompt book which demonstrates an increased attention to detail, steady improvement in basic techniques, and heightened creativity. Also elements of theater management will be covered. Drama may be applied to the Fine Arts requirement. This course has been approved to meet the UC/CSU "F" or "G" requirement.</p>			
<p><i>Teacher Comments: Drama 2-6 focuses on performance, playwriting, theatre production, and theatre history. Students will participate in a variety of acting exercises, activities, and assignments to help them sharpen their acting skills. Higher level courses (Drama 3-4 and Drama 5-6) will have more challenging assignments. This is a Career and Technical Education (CTE) class and is designed to prepare you for a job in the theatre industry.</i></p>			

DRAMA 6 <i>This course is also listed under Career Technical Education</i>	000350	GRADES 10-12	UC/CSU "F", "G"
Prerequisite: Drama 5 or teacher recommendation			
<p>Drama 6 is a course in which students explore advanced methods and techniques of acting, interpretation, and direction. Students are expected to participate in classroom scenes and touring productions. Students are expected to research an individually selected topic. Costuming and makeup are also to be covered in this course. This is essentially a director's laboratory/workshop and a performance class with scenes and projects. Drama may be applied to the Fine Arts requirement but not the English requirement. This course has been approved to meet the UC/CSU "F" or "G" requirement.</p>			
<p><i>Teacher Comments: Drama 2-6 focuses on performance, playwriting, theatre production, and theatre history. Students will participate in a variety of acting exercises, activities, and assignments to help them sharpen their acting skills. Higher level courses (Drama 3-4 and Drama 5-6) will have more challenging assignments. This is a Career and Technical Education (CTE) class and is designed to prepare you for a job in the theatre industry.</i></p>			

TECHNICAL PRODUCTION FOR THEATER 1-2 <i>This course is also listed under Career Technical Education</i>	000340-000341	GRADES 9-12	UC/CSU "F"
<p>Technical Production for the Theater 1-2 is a course which covers the basics of set design and construction, lighting, costuming, sound, makeup, and stage management. Specifically, students will be expected to design, construct, and paint flats, to plan and draw a lighting plot for a play, to operate a lighting board, and to choose costume designs and colors for characters in a play. In addition, students will be expected to operate the equipment used in sound effects and musical background for a play, to plan and apply makeup for play characters, and to act as stage manager. This course has been approved to meet the UC/CSU "F" requirement.</p>			

TECHNICAL PRODUCTION FOR THEATER 3-4 <i>This course is also listed under Career Technical Education</i>	000342-000343	GRADES 10-12	UC/CSU "F" "G"
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Prerequisite: Technical Production for Theater 1-2

Technical Production for the Theater 3-4 is a practical theater class which continues to build on knowledge, experience, and interest acquired in 1-2. Students will be able to perform the varied "behind the scenes" tasks at a level of expertness which would make them eligible for theater employment. This course does not apply to the English or Fine Arts graduation requirements but it has been approved to meet the UC/CSU "F" or "G" requirement.

Teacher Comments: Technical Production for Theater 3-4 is a Career in Technical Education (CTE) class, which means this class will prepare you for a career in technical theatre and theatre production. This class focuses on advancing students' knowledge in technical theatre, production, design, and theatre jobs. Students will participate in hands-on activities to sharpen their skills in the areas of painting, set building, design, lighting and sound technology.

THEATER ARTS STUDY AND PERFORMANCE 7-8 <i>This course is also listed under Career Technical Education</i>	000351-000352	GRADES 10-12	UC/CSU "F", "G"
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Prerequisite: Teacher recommendation

This course is intended for those students who are ready to make an in depth commitment to the study and performance of theatre. Students will continue to hone and expand their skills in performance, design, stagecraft and theatre management through the process of selecting and producing plays from a variety of theatre genres for public performance. This course has been approved to meet the UC/CSU "F" or "G" requirement.

Teacher Comments: Theater Studies 7-8 focuses on performance, playwriting, theatre production, directing, and theatre history. Students will participate in a variety of acting exercises, activities, and assignments to help them sharpen their acting skills. This is a Career and Technical Education (CTE) class and is designed to prepare you for a job in the theatre industry.

PERFORMING ARTS - MUSIC

CONCERT BAND 1-2	001175-001176	GRADES 9-12	UC/CSU "F"
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Prerequisite: Previous band experience

Concert Band 1-2 is designed for instrumental musicians. This is a performance class, and students are expected to participate in all band activities. Activities will include concerts for the band as well as solo and ensemble festivals. This band represents the school at District and state levels in concert festivals. All students are required to be enrolled in Marching Physical Education first trimester. This course has been approved to meet the UC/CSU "F" requirement and the PUSD Fine Arts requirement.

DANCE PROPS 1-2 (TALL FLAGS)	001193-001194	GRADES 9-12	UC/CSU "F"
Prerequisite: Audition and teacher recommendation			
The course provides a means to develop an awareness and understanding of the styles, idioms, performance medium, and purposes of music and dance that are part of our multicultural heritage and to provide a sound basis of musical and dance experience promoting good judgment of musical and dance value. The course is also designed to develop sensitivity to the qualities of music and to prepare students to participate in all aspects of public performance. This course has been approved to meet the UC/CSU "F" requirement and the PUSD Fine Arts requirement.			

INSTRUMENTAL ENSEMBLE 1-2 (PERCUSSION ONLY)	001186-001187	GRADES 9-12	UC/CSU "F"
Instrumental Ensemble 1-2 is a course for all levels of instrumental musicians. Small ensembles are encouraged, although solos may be prepared for the solo and ensemble festival held at two different locations in the county. The students may be required to participate in the solo and ensemble festival. This course may be repeated for credit. This course has been approved to meet the UC/CSU "F" requirement and PUSD Fine Arts requirement.			

JAZZ ENSEMBLE 1-2	001181-001182	GRADES 9-12	UC/CSU "F"
Prerequisite: Audition and teacher recommendation			
Jazz Ensemble 1-2 is a course for advanced instrumental performers. Advanced Jazz techniques will be taught. Modern as well as traditional repertoire will be studied and performed. This is a performance class, and students are expected to participate in all Jazz Ensemble activities. Outside time is required. Activities will include school and community performances. The Jazz Ensemble will represent the school at District and State levels in adjudicated festivals. This course has been approved to meet the UC/CSU "F" requirement.			

ORCHESTRA 1-2 (STRINGS ONLY)	001183-001184	GRADES 9-12	UC/CSU "F"
Prerequisite: Previous experience playing an orchestral string instrument			
Orchestra (String Ensemble) 1-2 is designed for the stringed-instrument student who desires to play in a performing organization of orchestral instruments. The group will play a variety of string orchestra music and will perform at concerts and music festivals. This course may be repeated for credit. This course has been approved to meet the UC/CSU "F" requirement and PUSD Fine Arts requirement.			

WIND ENSEMBLE 1-2	001177-001188	GRADES 10-12	UC/CSU "F", "G"
Prerequisite: Concert Band or Instrumental Ensemble			
Wind Ensemble 1-2 is a course for advanced instrumental musicians. This is a performance class, and students are expected to participate in all band activities. Some outside time is necessary. Activities will include concerts for the band and various festivals. The Wind Ensemble 1-2 will represent the school at District and state levels in concert evaluations. This course has been approved to meet the UC/CSU "F" or "G" requirement.			

COLLEGE PREP ELECTIVES

UC/CSU “G”

AGRICULTURAL ECONOMICS <i>This course is also listed under Career Technical Education</i>	000696	GRADE 12	UC/CSU “G”
<p>Students will be provided the knowledge and technical skills to assess the role of agriculture in the United State and global economies and will apply basic economic principles as they relate to individual consumers, production agriculture, and agri-business management. In addition, this course will allow students to deepen their understanding of the economic problems and institutions of the nation and the world in which they live. Students who successfully complete the course will earn economics credit. This course has been approved to meet the UC/CSU “G” requirement.</p>			

AP COMPUTER SCIENCE A 1-2 <i>This course is also listed under Career Technical Education</i>	001056-001057	GRADES 10-12	UC/CSU “G”
<p>Prerequisite: Grade of C or higher in Integrated Math Ia-Ib</p>			
<p>AP Computer Science Principles is designed as a college-level introduction to a computer science course for non-computer science majors. The course focuses on computational thinking and fluency. In order to gain a basic understanding of computers and computation, students will: learn about the impacts of computing; identify abstractions and learn how to use them in computing; be given solutions to computer programs to analyze for correctness and to engage in discussions about the solutions; and create computational artifacts, working individually and in teams. This course has been approved to meet the UC/CSU "G" requirement.</p>			

AP COMPUTER SCIENCE PRINCIPLES 1-2 <i>This course is also listed under Career Technical Education</i>	001078-001079	GRADES 10-12	UC/CSU “G”
<p>Prerequisite: Grade of C or higher in Integrated Math Ia-Ib</p>			
<p>AP Computer Science Principles is designed as a college-level introduction to a computer science course for non-computer science majors. The course focuses on computational thinking and fluency. In order to gain a basic understanding of computers and computation, students will: learn about the impacts of computing; identify abstractions and learn how to use them in computing; be given solutions to computer programs to analyze for correctness and to engage in discussions about the solutions; and create computational artifacts, working individually and in teams. This course has been approved to meet the UC/CSU "G" requirement.</p>			

AP HUMAN GEOGRAPHY 1-2 (AP HUG)	001312-001313	GRADES 9-12	UC/CSU “G”
<p>Prerequisite: Grade of B or higher in High School English 1-2 or teacher recommendation</p>			
<p>AP Human Geography introduces students to the basic concepts of human geography and provides a geographic framework for the analysis of current world problems through the use of case studies. The course develops students’ abilities to ask geographic questions; acquire, organize, and analyze geographic information; and answer geographic questions. This course will cover basic concepts of geography, population, migration, folk and popular culture, language, religion, ethnicity, political geography, development, agriculture, industry, services, and urban geography. The class strives to provide students with the analytical skills and factual knowledge to deal critically with the problems and issues in geography. To achieve this goal, students should be prepared to spend a significant amount of time outside of class on homework and research. Students in AP Human Geography need to be extremely motivated, responsible, and dedicated in order to make this commitment. This course has been approved to meet the UC/CSU “G” requirement.</p>			

AP HUMAN GEOGRAPHY SEMINAR	001315	GRADES 9-12	NON A-G
<p>AP Human Geography Seminar is a one-trimester class that will allow students to refine their understanding of and writing skills in the Social Sciences as well as explore topics and concepts relevant to the study of Human Geography on a spatial level. Academic research methods and techniques specific to Social Science will also be included. This course may be used to meet a PUSD elective graduation requirement.</p>			
<p><i>Teacher Comments: AP Human Geography is an elective course offered for students freshman through senior at Poway High School. This is a challenging course that focuses on humans and their interactions with our planet. Students will have the opportunity to earn college credit by taking the AP Exam at the end of the year. Students who have disciplined work habits, strong reading comprehension, and a willingness to learn will be successful in the course. A typical night's homework is around 45 min or less but is dependent on a student's reading comprehension and use of class time provided. There is a presentation or project associated with most chapters. The class strives to provide students with the analytical skills and factual knowledge to deal critically with the problems and issues in geography. Students in AP Human Geography need to be motivated, responsible, and dedicated in order to make this commitment.</i></p>			

AP PSYCHOLOGY 1-2	001327-001328	GRADES 11-12	UC/CSU "G"
<p>The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. This course has been approved to meet the UC/CSU "G" requirement.</p>			
<p><i>Teacher Comments: AP Psychology is a two trimester course that aims to answer the question: "How do psychologists think?" Whether you choose to pursue a career related to psychology or one in some entirely different field, this habit of mind will be of great value. Our journey will encourage you to (1) explore discoveries made by psychologists over the past century; (2) assess the differing approaches adopted by psychologists; (3) appreciate the kind of critical analysis that psychologists espouse and hope to model in their words and actions; and (4) develop a unique understanding of yourself and others. Students can count on approximately two nights of homework per week and multiple-choice and written free-response questions for tests after each of the 13 units. There are also mid-term exams given at the half-way mark of each trimester with cumulative finals after each trimester.</i></p>			

AVID 1-2	001595-001596	GRADE 9	UC/CSU "G"
<p>Prerequisite: Application and interview required</p>			
<p>The ninth grade AVID course is an elective class for students who are college bound. While concurrently enrolled in a college-prep course of study, students learn strategies to enhance success. To ensure success in college-prep course work, students work individually, as well as in tutor-led collaborative groups. Note taking, outlining, writing, speaking, reading, and test-taking strategies are stressed. In addition, the course includes college motivational activities. This course has been approved to meet the UC/CSU "G" requirement.</p>			

AVID 3-4	001597-001598	GRADE 10	UC/CSU "G"
Prerequisite: Application and interview required			
The tenth grade AVID course is an elective class for students who are college bound. While concurrently enrolled in a college-prep course of study, students further develop strategies to enhance success. To ensure continued success in college-prep course work, students work individually, as well as in tutor-led collaborative groups. Note taking, outlining, writing, speaking, reading, and test taking strategies are stressed. In addition, the course includes college motivational and career exploration activities. This course has been approved to meet the UC/CSU "G" requirement.			

AVID 5-6	001599-001600	GRADE 11	UC/CSU "G"
Prerequisite: Application and interview required			
The 11th grade AVID course is an elective class for students who are college bound. To ensure continued success in college-prep course work, students work individually, as well as in tutor-led collaborative groups to develop stronger academic skills in a variety of content areas. Note taking, outlining, writing, speaking, reading, and test taking strategies are stressed. In addition, the course includes college motivational and career exploration activities. This course has been approved to meet the UCCSU "G" requirement.			

AVID SENIOR SEMINAR 1-2	001609-001610	GRADE 12	UC/CSU "G"
Prerequisite: Application and interview required			
The AVID Senior Seminar 1-2 follows the weekly structure of all AVID classes, with two days of teacher-led curriculum per week, two days of tutorials, and a day allocated for guest speakers, mini-courses taught by college instructors, and visits to colleges, museums, art galleries, or drama productions. The course involves substantial critical reading and writing, preparation for external exams such as the Advanced Placement and Subject A examinations, and weekly Socratic seminars. Students enrolled in the course are required to complete weekly timed writings and analytical discourses in subjects across the curriculum. In addition, students are required to make oral presentations to the class on topics related to college entrance, contemporary issues, and social concerns. This course has been approved to meet the UC/CSU "G" requirement.			

AVID 8	1608	GRADE 12	NON A-G
Prerequisite: Application and interview required			
AVID 8 follows the weekly structure of all AVID classes, with two days of teacher-led curriculum per week, two days of tutorials, and a day allocated for guest speakers, mini-courses taught by college instructors, and visits to colleges, museums, art galleries, or drama productions. This course continues the development of critical reading and writing, preparation for College Board exams and weekly Socratic seminars. Students enrolled in the course are required to complete timed writings and analytical discourses in subjects across the curriculum. In addition, students are required to make oral presentations to the class on topics related to college entrance, contemporary issues, and social concerns. This course may be used to meet a PUSD elective graduation requirement..			

BROADCAST JOURNALISM/TELEVISION PRODUCTION 1-2 <i>This course is also listed under Career Technical Education</i>	000987-000988	GRADES 9-12	UC/CSU "G"
Broadcast Journalism/Television Production introduces students to the basic tools, techniques, and vocabulary of broadcast journalism. It provides an overview of the principles and historical and contemporary practices of broadcast journalism in society, with emphasis on methods, writing, announcing, ethics, and career opportunities. Students will practice the fundamentals of communicating using the television medium and through hands-on projects will learn to perform the basic job requirements of the camera operator, audio operator, video switcher, lighting director, floor			

manager, graphics operator, announcer, and director. Students will apply their knowledge as they produce regular news segments to be broadcast for the school. This course has been approved to meet the UC "G" requirement. This course is repeatable; however, when approved, only two terms (1-2) will apply toward meeting the UC/CSU "G" requirement.

CIVIL ENGINEERING AND ARCHITECTURE (CEA) 1-2 <i>This course is also listed under Career Technical Education</i>	000937-000938	GRADES 10-12	UC/CSU "G"
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Prerequisite: Recommended to take Pre-Engineering and Design 1 or 2 with CEA, CIM, or EDD

Civil Engineering and Architecture is a specialization course in the sequence of Project Lead the Way Engineering courses. This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields upon each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers topics such as: Project Planning, Site Planning, Building Design, Project Documentation and Presentation. Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software. This course has been approved to meet the UC/CSU "G" requirement.

ENGINEERING DESIGN AND DEVELOPMENT (EDD) 1-2 <i>This course is also listed under Career Technical Education</i>	000864-000865	GRADES 11-12	UC/CSU "G"
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Prerequisite: Integrated Math Ia-Ib; recommended to take Pre-Engineering and Design 1 or 2 with CEA, CIM, or EDD

Engineering Design and Development (EDD) is the capstone course in the Project Lead the Way (PLTW) high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies, and concurrently develops, secondary level knowledge and skills in mathematics, science, and technology. Utilizing the Activity-Project-Problem-Based (APPB) teaching and learning pedagogy, students will perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams of students will design, build, and test their solutions. Finally, student teams will present and defend their original solutions to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of the design process. EDD is a high school level course that is appropriate for juniors or seniors. Since the projects on which students work vary with student interest, and the curriculum focuses on the development of problem solving skills, EDD is appropriate for students who are interested in any technical career path. This course has been approved to meet the UC/CSU "G" requirement.

HONORS PRINCIPLES OF ENGINEERING (POE) 1-2 <i>This course is also listed under Career Technical Education</i>	000886-000887	GRADES 9-12	UC/CSU "G"
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Prerequisite: Grade of C or higher in Integrated Math Ia-Ib; recommended to take Introduction to Engineering Design 1 or 2 with POE

Honors Principles of Engineering (POE) 1-2 is a high school-level survey course of engineering and physics topics. The course exposes students to many core concepts in physics and engineering that they will encounter in a postsecondary engineering course of study, including kinematics, energy, power, materials, structures, control systems, and statistics. As part of the Project Lead the Way Engineering pathway curricula, this course provides students the opportunity to develop skills and gain an understanding of Engineering concepts through laboratory activities, projects, and problem-based learning. This course has been approved to meet the UC/CSU "G" requirement.

Teacher Comments: This course is a lot of fun, as students will work with fuel cell technology by building a fuel cell car

and boat, learn about civil engineering by designing bridges, create electronic projects, and design, code and build robots for future space exploration. The course work is primarily in class with little homework. As part of the National Project Lead the Way Engineering pathway curricula, students will take a national engineering test to receive college credit to any university or college. For PUSD graduation requirements, the course fulfills your UC/CSU 'g' College Prep Elective Credit or your UC/CSU 'd' Science Credit counting toward your 3rd year of science for college admittance. This course is on a weighted 5.0 scale.

INTRODUCTION TO AGRICULTURE 1-2 (AGRICULTURAL SCIENCE) <i>This course is also listed under Career Technical Education</i>	000924-000925	GRADES 9-12	UC/CSU "G"
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Introduction to Agriculture 1-2 (Agricultural Science) is offered to first year agriculture students who are planning to major in agriculture in a college or university. The course is designed in conjunction with Agriculture Biology to meet UC requirements and California State Standards for Biological Sciences. It has been designed to provide students with a unique perspective of agriculture and its impact on American society. It also provides students with critical thinking and leadership development skills via the Future Farmers of America (FFA), as well as foundation skills and knowledge in the seven program areas of agriculture. The Agriculture Science 1-2 course is designed to be both academically challenging and demanding. Students will be expected to not only acquire knowledge, but also to organize, analyze, evaluate, predict, problem solve, and apply this knowledge. The student must be able to read and comprehend a variety of materials; demonstrate writing skills that convey ideas in written and visual form; speak with clarity, meaning, and confidence, exhibit creativity; use technology in research and accessing information; appreciate and respect individual and cultural differences; and demonstrate the ability to work collaboratively. This course has been approved to meet the UC/CSU "G" requirement.

INTRODUCTION TO COMPUTER PROGRAMMING 1-2 <i>This course is also listed under Career Technical Education</i>	001058	GRADES 9-12	UC/CSU "G"
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Prerequisite: Grade of C or higher in Integrated Math Ia-Ib

Introduction to Computer Programming 1-2 will introduce the students to the current computer programming language. Students will learn to develop algorithms, computer programming in the computer language, as well as learn the Windows XP operating system. The primary emphasis will be to learn the proper and efficient use of standard commands, structures, and statements in the computer programming language. This course will stress logic and analytical thinking skills. It is recommended for the college bound student planning on a business, math, or computer science major. This course is designed for the student planning to take AP Computer Science 1-2. This course has been approved to meet the UC/CSU "G" requirement.

JOURNALISM 2 (ILIAD)	000398	GRADES 9-12	UC/CSU "G"
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Prerequisite: Teacher recommendation

Journalism 2 is a course in which students use the skills of lead writing, news writing, editorial writing, feature writing, and headline writing to produce the school newspaper. Other skills used in the production of the paper include copyediting, layout and design, headline and caption writing, photography, and cartooning. One trimester of Journalism 1 or 2 has been approved to meet the UC/CSU "G" requirement; and Journalism 2 can be used to meet the PUSD Practical Arts requirement.

LAW IN ACTION	001350	GRADES 10-12	UC/CSU "G"
<p>Law in Action is a practical, participatory education about law, democracy, and human rights. A course that is a blend of content and methodology that uses techniques that promote cooperative learning, critical thinking, and the ability to participate in a democratic society. The curriculum promotes knowledge of legal rights and responsibilities, engagement in the democratic process, and belief in the rule of law. This course's approach to law related education is to provide practical information and problem solving opportunities that develop in students the knowledge and skills necessary for survival in our law-saturated society. This course has been approved to meet the UC/CSU "G" requirement.</p>			
<p><i>Teacher Comments: Law in Action is a one trimester elective high school law class. It is intended to be a general survey of the American legal system, and is geared to the issues important to young adults. Topics covered include criminal law (crimes against people and property, drunk driving, controlled substances, gun laws, Good Samaritans, social hosting, and crime victims); employment law (career search, resumes and cover letters, the interview process, wages/salary laws, benefits, retirement planning, budgeting, payroll, tax-planning, preparing tax returns); and landlord-tenant law (buying v. renting, the lease agreement as a legally-binding contract, lease terms, security deposits, pets, discrimination, subletting, and landlord and tenant rights and responsibilities). Issues relating to insurance, contract and family law, and other legal topics, are addressed as they relate to the foregoing. The class takes a fieldtrip to the San Diego County Superior Courthouse to meet judges, participate in mock trials, and observe actual civil and criminal trials. The Law in Action student can expect: (1) to do most, but not all, of the course work during class; (2) daily discussions of legal issues; (3) to learn about the variety of legal careers available; and (4) to gain insights about the realities of practicing law. This course meets the UC "G" requirement as a social science elective.</i></p>			

PRE-ENGINEERING AND DESIGN (PED) 1-2 <i>This course is also listed under Career Technical Education</i>	000850-000851	GRADES 10-12	UC/CSU "G"
<p>Pre-Engineering and Design is an in-depth, hands-on course that concentrates on Industrial Design/Technology and is divided into four units: Technical Illustration and Design, Aesthetic Theories and Creativity, Computer-Aided Drafting, and Modeling. This course will give students the opportunity to use technology to learn about Engineering and Industrial Design. This course has been approved to meet the UC/CSU "G" requirement. This course may be used to meet the PUSD Practical Arts requirement.</p>			

PSYCHOLOGY 1	001325	GRADES 10-12	UC/CSU "G"
<p>Psychology 1 is a course which deals with the factors which help to shape an individual's personality and behavior. Included are biological bases of behavior, physical maturation, the psychological development of the individual through various stages from infancy to adulthood, and perception. Other topics included are motivation, intelligence, and behavior disorders. Various strategies are discussed which can help people attain healthy, normal relationships and solutions to frustrations and conflicts. . This course has been approved to meet the UC/CSU "G" requirement.</p>			

SOCIOLOGY	001360	GRADES 9-12	UC/CSU "G"
<p>Sociology is the study of human relationships through analysis of the types, structures, dynamics, and functions of groups. In particular, students will study why groups form, how groups are organized, in what way groups fulfill the needs of individual members and of society as a whole, and how groups are affected by outside influences. The commonality of human behavior in groups and the similarity of groups throughout the world will be stressed. This course has been approved to meet the UC/CSU "G" requirement.</p>			
<p><i>Teacher Comments: In this class, we seek to understand the ways in which society influences the language(s) we</i></p>			

speak, the music we listen to, the friends we make, the food we like, the clothes we wear, and ultimately who we become. Is this learned or something encoded in our DNA? To find out, we will examine and discuss how relevant social issues such as racism, poverty, stereotypes, homelessness, and education coincide with human behavior and agents of socialization to create the self and broader society. In doing so, students will develop a deeper understanding of how the world works and their roles in it. Those who thrive in this course are often curious about how individuals can and do make differences in their communities.

STUDENT SUCCESS		GRADES 9-12	NON A-G
This is a one trimester course. This course may be used to meet a PUSD elective graduation requirement.			

VETERINARY SCIENCE 1-2 <i>This course is also listed under Career Technical Education</i>	000928-000929	GRADES 9-12	UC/CSU "G"
<p>Veterinary Science 1-2 is a one-year, laboratory science course, designed for college-bound students with career interests in veterinary science. Using veterinary science as the vehicle, students will be able to:</p> <p>A. Access research material from the library, Internet, and other sources to complete increasingly challenging assignments as self-directed learners. In-depth study of the anatomy and physiology of a variety of animal species is designed to build knowledgeable problem solvers in the field of Veterinary Science.</p> <p>B. Acquire advanced animal principles, know and respect diversity in the animal kingdom, and become an animal advocate for their welfare on all levels encompassing family pets, domestic livestock, and our wildlife resources.</p> <p>C. Demonstrate ability to solve problems and think critically by effectively completing group and individual projects and assignments. The combination of science labs and research enables students to use complex, creative thinking skills to reach sound conclusions.</p> <p>D. Develop and enhance computer skills while working on individual and group projects to practice and refine written, oral, and multimedia communication skills.</p> <p>E. Prepare for advanced post-secondary level education in animal science, biology, and/or zoology.</p> <p>This course has been approved to meet the UC/CSU "G" requirement.</p>			

WRITING SEMINAR 1,2	000363-000364	GRADES 11-12	UC/CSU "G"
Prerequisite: Teacher recommendation			
<p>Writing Seminar 1 is designed for students with an interest in creative written expression and an interest in the connection between writing and reading. The course has three purposes: 1) to explore and practice various styles of expository and narrative writing, 2) to understand the writing process and the importance of revision to writers, and 3) to read critically various pieces of literature and to apply the techniques of published writers into their own analyses. This course has been approved to meet the UCCSU "G" requirement.</p> <p>Writing Seminar 2 is designed for those students who wish to continue with the advanced study and practice of creative writing with more emphasis on independent study and research into authors and styles. Students will utilize more of the connection between their reading and their writing. Students will seriously involve themselves in all aspects of the writing process and will write for publication. This course has been approved to meet the UC/CSU "G" requirement.</p>			

YEARBOOK 1-2	001632-001633	GRADES 9-12	UC/CSU "G"
Prerequisite: Strong English grade recommended			
The basic purpose of the Yearbook class is to produce an offset yearbook. Students are assigned various tasks which require initiative and responsibility. Records must be kept, ads sold, pictures taken, dummy copy prepared, and money collected. A dummy yearbook is prepared for the following year. This course may not be used for English credit. This course has been approved to meet the UC/CSU "G" requirement.			

HEALTH AND PHYSICAL EDUCATION

HEALTH	000515	GRADES 9-12	NON A-G
<p>Health is a graduation requirement and can be taken at any grade level. Health is a course designed to teach students to take personal responsibility for lifelong health, including an understanding of the variety of physical, mental, emotional, and social changes that occur throughout life. Students will gain knowledge and develop skills in such areas as substance abuse, infectious and chronic diseases, decision-making and effective communication, nutrition and fitness, and family life and sex education. Throughout the course, students will develop an understanding and respect for the health and wellbeing of others.</p>			

ADVANCED BASEBALL/WEIGHT TRAINING	001410	GRADES 10-12	NON A-G
<p>Prerequisite: Teacher recommendation</p>			
<p>Advanced Baseball/Weight Training is a course designed to enhance the basic fundamentals of baseball and provide a program for physical conditioning.</p>			

ADVANCED BASKETBALL	001414	GRADES 10-12	NON A-G
<p>Prerequisite: Teacher recommendation</p>			
<p>Advanced Basketball is a course designed to refine intermediate skills and to teach more difficult basketball techniques.</p>			

ADVANCED FOOTBALL/WEIGHT TRAINING	001496	GRADES 10-12	NON A-G
<p>Prerequisite: Teacher recommendation</p>			
<p>Advanced Football/Weight Training is a course designed to enhance the basic fundamentals of football and provide a program for physical conditioning.</p>			

ADVANCED WRESTLING/WEIGHT TRAINING	001495	GRADES 10-12	NON A-G
<p>Prerequisite: Teacher recommendation</p>			
<p>Advanced Wrestling/Weight Training is designed to further a wrestler's skill level and physical strength to a much higher level. Major emphasis will be placed on the various techniques used in wrestling, as well as a higher degree of intensity when weight training.</p>			

AEROBIC DANCE	001428	GRADES 10-12	NON A-G
Aerobic Dance is a course in which students are taught basic dance movements, rhythmic fundamentals, and breathing methods. Objectives of the course include developing and improving cardiovascular fitness through dance, developing flexibility, and relating the fundamentals of music to body movement and dance.			
AEROBICS/WEIGHT TRAINING	001427	GRADES 10-12	NON A-G
Aerobics/Weight Training is a course in which students are taught basic dance movements, rhythmic fundamentals, and breathing methods while involved in the isotonic type of weight training. Exercises which students perform on the universal weight machine include bench press, military press, upright rowing, lat pull, leg press, bar dips, and leg extension. Free weight exercises include bench press, toe raises, curls, military press, and back squats. Objectives of the course also include developing and improving cardiovascular fitness through dance, developing flexibility, and relating the fundamentals of music to body movement and dance.			
BEGINNING BASKETBALL	001412	GRADES 10-12	NON A-G
Beginning Basketball is a course designed to increase the student's proficiency in the sport through learning and practicing fundamental skills, rules, and techniques.			
FIELD SPORTS 1-2	001418-001419	GRADES 10-12	NON A-G
Students will understand, participate, and teach the advanced principles of training and competition for Field Sports that include football, soccer, lacrosse, and speedball. Areas of study will include understanding and execution of advanced offensive and defensive strategies, development of appropriate training practices, application of dynamic scientific principles, sports psychology, optimal nutritional habits, application and modification of rules of the game, officiating, tournament facilitation, and coaching.			
FRESHMAN PHYSICAL EDUCATION 1-2	001400-001401	GRADE 9	NON A-G
Freshman Physical Education is designed for freshman students to introduce them to physical education at the high school level. During the freshman year, students will be exposed to six different activities, including one from each of the following: aquatics, individual/dual sports, team sports, fitness, and weight training. Individual fitness evaluation, goal-setting, and program development will be a major focus during the freshman year.			
MARCHING PHYSICAL EDUCATION	001198	GRADES 9-12	NON A-G
Prerequisite: Concurrent enrollment in Band or Tall Flags			
Marching Physical Education is designed to develop a well-coordinated and precise marching unit. Students will learn to prepare and execute marching, dance, and drill routines. All band members are required to take this course. Note: A total of 15 credits in Marching Physical Education may be applied toward the Physical Education requirement.			

MARCHING PHYSICAL EDUCATION TALL FLAGS (COLOR GUARD)	001199	GRADES 9-12	NON A-G
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The Color Guard class provides students with the opportunity to develop musical/visual concepts, skills, and interpretations. These concepts will be used in conjunction with the marching program and the indoor tall flag instruction. Evaluation will be provided by the Southern California School Band and Orchestra Association and the California Tall Flag Association, in addition to teacher observation.

RACQUET SPORTS 1-2	001420-001421	GRADES 10-12	NON A-G
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Students will understand, participate, and teach the advanced principles of training and competition for Racquet Sports that include tennis, racquetball, and badminton. Areas of study will include understanding and execution of advanced offensive and defensive strategies, development of appropriate training practices, application of dynamic scientific principles, sports psychology, optimal nutritional habits, application and modification of rules of the game, officiating, tournament facilitation, and coaching.

WEIGHT TRAINING	001493	GRADES 10-12	NON A-G
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Weight Training is a course in which students are involved in the isotonic type of weight training. Exercises which students perform on the universal weight machine include bench press, military press, upright rowing, lat pull, leg press, bar dips, and leg extension. Free weight exercises include bench press, toe raises, curls, military press, and back squats.

CAREER TECHNICAL EDUCATION (CTE) ELECTIVES

AGRICULTURE AND NATURAL RESOURCES

AGRICULTURAL ECONOMICS <i>This course is also listed under College Prep Electives</i>	000696	GRADE 12	UC/CSU "G"
<p>Students will be provided the knowledge and technical skills to assess the role of agriculture in the United State and global economies and will apply basic economic principles as they relate to individual consumers, production agriculture, and agri-business management. In addition, this course will allow students to deepen their understanding of the economic problems and institutions of the nation and the world in which they live. Students who successfully complete the course will earn economics credit. This course has been approved to meet the UC/CSU "G" requirement.</p>			

AGRICULTURAL GOVERNMENT POLICY <i>This course is also listed under History/Social Science</i>	000919	GRADE 12	UC/CSU "A"
<p>This class is designed to allow students to study the origins of our federal, state and local governments and study their structure, function, theory and process while understanding the influence of the government on the agriculture industry. Students who successfully complete the course will earn civics credit..This course has been approved to meet the UC/CSU "A" requirement.</p>			

ART AND HISTORY OF FLORAL DESIGN 1-2 <i>This course is also listed under Visual and Performing Arts</i>	000174-000175	GRADES 9-12	UC/CSU "F"
<p>Art and History of Floral Design 1-2 provides an introduction to artistic and creative perception including aesthetic valuing through a series of projects in various media including tempera, pencil, flowers, tile, and a variety of papers. Students are also introduced to the elements and principles of visual art design such as line, shape/form, color, balance, and emphasis using a series of floral-based projects to explore the connections, relations, and application to visual arts design. Students will research and study floral trends to understand and develop an appreciation for floral design within historical and cultural, formal and casual, ceremonial, and traditional, including an understanding that floral designs are affected by society, culture, history, politics, and economic influence. Various assignments based on abstract two- and three-dimensional designs, historical culture and theory, color theory, and analytical critiques of various floral art works using design vocabulary in conjunction with the development of technical skills in floral art will serve as a foundation for more complex works such as multi-part floral designs and creative expression through wedding consultations. This course has been approved to meet the UC/CSU "F" requirement.</p>			

CHEMISTRY AND AGRISCIENCE <i>This course is also listed under Science</i>	000944-000945	GRADES 10-12	UC/CSU "D"
<p>Prerequisite: Concurrent enrollment in another Agricultural Pathway course or prior completion of any agricultural course, and concurrent or prior completion of Integrated Math 2a-2b.</p> <p>This course explores the physical and chemical nature of soil as well as the relationships between soil, plants, animals and agricultural practices. Students will examine properties of soil and land and their connections to plant and animal production. Using knowledge of scientific protocols as well as course content, students will develop an Agriscience research program to be conducted throughout the first trimester of the course. Additionally, students will develop and</p>			

present a capstone soil management plan for agricultural producers, using the content learned throughout the course. This course has been approved to meet the UC/CSU “D” requirement and the PUSD Physical Science requirement.

INTRODUCTION TO AGRICULTURE 1-2 (AGRICULTURAL SCIENCE) <i>This course is also listed under College Prep Electives</i>	000924-000925	GRADES 9-12	UC/CSU “G”
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Introduction to Agriculture 1-2 (Agricultural Science) is offered to first year agriculture students who are planning to major in agriculture in a college or university. The course is designed in conjunction with Agriculture Biology to meet UC requirements and California State Standards for Biological Sciences. It has been designed to provide students with a unique perspective of agriculture and its impact on American society. It also provides students with critical thinking and leadership development skills via the Future Farmers of America (FFA), as well as foundation skills and knowledge in the seven program areas of agriculture. The Agriculture Science 1-2 course is designed to be both academically challenging and demanding. Students will be expected to not only acquire knowledge, but also to organize, analyze, evaluate, predict, problem solve, and apply this knowledge. The student must be able to read and comprehend a variety of materials; demonstrate writing skills that convey ideas in written and visual form; speak with clarity, meaning, and confidence, exhibit creativity; use technology in research and accessing information; appreciate and respect individual and cultural differences; and demonstrate the ability to work collaboratively. This course has been approved to meet the UC/CSU “G” requirement.

SUSTAINABLE AGRICULTURE-BIO APPROACH 1-2 <i>This course is also listed under Science</i>	000699-000700	GRADES 9-12	UC/CSU “D”, “G”
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This one year course, organized into four major units integrates biological science practices and knowledge into the practice of sustainable agriculture. Within each unit of study, specific life science principles integrate with agricultural principles, as students gain knowledge of how the two disciplines inform each other, culminating in the development of a sustainable farm model and portfolio of supporting student research. This course has been approved to meet the UC/CSU “D” or “G” requirement and meets THE PUSD Life Science requirement.

VETERINARY SCIENCE 1-2 <i>This course is also listed under College Prep Electives</i>	000928-000929	GRADES 9-12	UC/CSU “G”
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Veterinary Science 1-2 is a one-year, laboratory science course, designed for college-bound students with career interests in veterinary science. Using veterinary science as the vehicle, students will be able to:

- A. Access research material from the library, Internet, and other sources to complete increasingly challenging assignments as self-directed learners. In-depth study of the anatomy and physiology of a variety of animal species is designed to build knowledgeable problem solvers in the field of Veterinary Science.
- B. Acquire advanced animal principles, know and respect diversity in the animal kingdom, and become an animal advocate for their welfare on all levels encompassing family pets, domestic livestock, and our wildlife resources.
- C. Demonstrate ability to solve problems and think critically by effectively completing group and individual projects and assignments. The combination of science labs and research enables students to use complex, creative thinking skills to reach sound conclusions.
- D. Develop and enhance computer skills while working on individual and group projects to practice and refine written, oral, and multimedia communication skills.
- E. Prepare for advanced post-secondary level education in animal science, biology, and/or zoology.

This course has been approved to meet the UC/CSU “G” requirement.

ARTS, MEDIA AND ENTERTAINMENT (AME)

3D COMPUTER ANIMATION 1-2 <i>This course is also listed under Visual and Performing Arts</i>	000857-000858	GRADES 9-12	UC/CSU "F"
<p>3D Computer Animation is an in-depth hands-on course that allows students to learn transferable skills and concepts used in the work force and in our highly technological society related to the fields of computer design and virtual reality. Students will concentrate on the principles and elements of design and theoretical ideas of art/design, broadening the students' creativity and cultural awareness to develop innovative and creative computer-aided graphics/design and virtual reality. This course has been approved to meet the UC/CSU "F" requirement and the PUSD Fine and Practical Arts requirement.</p>			
<p><i>Teacher Comments: 3D Computer Animation 1-2 focuses on the art of 3D computer animation. Students will have fun as they learn how to create 3D models, characters, and their very own animations to impress their friends and family. Students will learn the basics of the principles of animation, design, animation software (3D Studio Max), 3D modeling, storyboard development, script writing, and character development. Toward the end of the course, students will also work in a production group to create a small-animated movie. Students will have the opportunity to self-express and communicate their own ideas through modeling, animation and story development. They will analysis formally and aesthetically their group and individual work. Students will experience working with different mediums to create storyboards and to design their own animated scenes and short stories. The course work is primarily in class with little homework.</i></p>			

3D COMPUTER ANIMATION 3-4	000859-000860	GRADES 10-12	NON A-G
<p>Prerequisite: 3D Computer Animation 1-2</p>			
<p>3D Computer Animation 3-4 is a studio class that provides students the opportunity to communicate original ideas through the study of 3D Computer Animation. Students will develop a script/story and create a feature animation, video game, scientific visualization, or historical reconstruction. Storyboards will emphasize character development, design, backgrounds, props, digital painting, special effects, and scene development, using video techniques and principles. 3D Computer Animation 3-4 meets the PUSD Fine and Practical Arts requirement.</p>			

3D COMPUTER ANIMATION 5-6	000861-000862	GRADES 10-12	NON A-G
<p>Prerequisite: 3D Computer Animation 3-4</p>			
<p>3D Computer Animation 5-6 is a studio class, following successful completion of 3D Computer Animation 3-4, that provides students with a valuable insight into the field through a mentor and internship with a local business/industry partner. The course will provide a real-world context as well as continue to provide students with the opportunity to self express and communicate their own ideas through design, props, digital painting, special effects, and storyboard and scene development. Students will continue to focus on their area of interest within the computer animation field and delve into the area with the help of the mentor/internship. 3D Computer Animation 5-6 meets the PUSD Fine and Practical Arts requirement.</p>			

AP STUDIO ART: 2D DESIGN 1-2 (PHOTOGRAPHY) <i>This course is also listed under Visual and Performing Arts</i>	000157-000158	GRADES 10-12	UC/CSU "F", "G"
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Prerequisite: Photography 1-4 and teacher recommendation

Advanced Placement Studio Art: 2D Design provides instruction for the highly skilled exceptional students in two-dimensional design. The course assists these students in the preparation of a 2D Portfolio. It is designed to address a very broad interpretation of two-dimensional design issues. This type of design involves purposeful decision-making about how to use the elements and principles of art in an integrative way. The elements of design (line, shape, space, form, texture, value and color) are like a palette of possibilities that artists use to express themselves. The principles of design help guide artists in making decisions about how to organize the elements on a picture plane in order to communicate content. These principles include contrast, emphasis, balance, pattern, rhythm, movement and unity. Portfolio preparation involves a significant time commitment and is, therefore, intended for motivated students with advanced skills who are seriously dedicated to studying art. This course has been approved to meet the UC/CSU "F" or "G" requirement.

AP STUDIO ART: 3D DESIGN 1-2 (CERAMICS) <i>This course is also listed under Visual and Performing Arts</i>	000159-000160	GRADES 10-12	UC/CSU "F", "G"
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Prerequisite: Ceramics 3-4 and teacher recommendation

Advanced Placement Studio Art: 3D Design provides instruction for the highly skilled exceptional students in 3D Design. The course assists these students in the preparation of a Three-Dimensional Design Portfolio. It is designed to address a very broad interpretation of sculpture issues in depth and space. These may include mass, volume, form, plane, light, and texture. Such elements and concepts can be articulated through additive, subtractive, and/or fabrication processes. Portfolio preparation involves a significant time commitment and is, therefore, intended for motivated students with advanced skills who are seriously dedicated to studying art. This course has been approved to meet the UC/CSU "F" or "G" requirement.

AP STUDIO ART: DRAWING 1-2 <i>This course is also listed under Visual and Performing Arts</i>	000151-000152	GRADES 10-12	UC/CSU "F", "G"
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Prerequisite: Drawing and Painting 1-4 and teacher recommendation

Advanced Placement Studio Art: Drawing provides instruction for the highly skilled exceptional students in drawing, painting, and three dimensional design. The course assists these students in the preparation of a portfolio for the Advanced Placement program in Studio Art. Portfolio preparation involves a significant time commitment and is, therefore, intended for motivated students with advanced skills who are seriously dedicated to studying art. It may be repeated for credit. This course has been approved to meet the UC/CSU "F" or "G" requirement.

BROADCAST JOURNALISM/TELEVISION PRODUCTION 1-2 <i>This course is also listed under College Prep Electives</i>	000987-000988	GRADES 9-12	UC/CSU "G"
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Broadcast Journalism/Television Production introduces students to the basic tools, techniques, and vocabulary of broadcast journalism. It provides an overview of the principles and historical and contemporary practices of broadcast journalism in society, with emphasis on methods, writing, announcing, ethics, and career opportunities. Students will practice the fundamentals of communicating using the television medium and through hands-on projects will learn to perform the basic job requirements of the camera operator, audio operator, video switcher, lighting director, floor manager, graphics operator, announcer, and director. Students will apply their knowledge as they produce regular news segments to be broadcast for the school. This course has been approved to meet the UC/CSU "G" requirement. This course is repeatable; however, when approved, only two terms (1-2) will apply toward meeting the UC "G" requirement.

BROADCAST JOURNALISM/TELEVISION PRODUCTION 3-4	000353-000354	GRADES 10-12	NON A-G
Prerequisite: Broadcast Journalism 1-2			
Students will develop a thorough understanding of creative non-fiction storytelling in various forms including documentary, short form packages, and live reporting. Additionally, students will write and create compelling, creative voice overs to accompany visual imagery. Students will have the opportunity to become program directors and manage a full day, weekly newscast program with a large crew of production students. This course has been submitted for approval to meet the UC/CSU "F" requirement.			

DIGITAL MEDIA PRODUCTION 1-2 <i>This course is also listed under Visual and Performing Arts</i>	000998-000999	GRADES 9-12	UC/CSU "F"
Students will learn to create short films (vignettes) from idea to inception. This course provides introductory and intermediate training in digital media production. This course covers the following: operation of video cameras, digital video editing equipment, digital audio editing equipment, lighting equipment, multi-track digital recorders, video recorders, compact disc & DVD recorders and rendering. Instruction includes basic development of treatments, storyboarding, script writing, and production concepts. Students will use equipment, which includes Final Cut Pro video & audio editing software. Digidesign Pro-tools, audio editing software, digital video cameras. This course has been approved to meet the UC/CSU "F" requirement.			

DIGITAL MEDIA PRODUCTION 3-4 <i>This course is also listed under Visual and Performing Arts</i>	000996-000997	GRADES 10-12	UC/CSU "F"
Prerequisite: Digital Media 1-2			
This course is a continuation of Digital Media Production 1-2. In this course, students take the skills learned in the first course of the sequence and choose areas in which to specialize (writing, directing, acting, producing, storyboarding, scheduling, cinematography, lighting design, audio engineering, and editing). Students develop advanced skills within their areas of specialization and collaborate on projects with students who are specializing in the other areas of digital media production. This course will expose students to the proper use of state-of-the-art film and video production tools as well as access to professional seminars from industry professionals. They will learn the vocabulary of film and use it to express themselves clearly and concisely in their writings for that industry. They will be using industry standards in computer hardware and editing software. Most important is the art of filmmaking and the creative process that precedes any film or television project, this page-to-film process can be a painstaking endless series of creating, writing, rewriting, collaboration, and more rewrites. Students will study the impact of film and television on society from its social, economic, and political viewpoint. Films will be previewed for students in class and after school, they are expected to know the history of filmmaking and the technology that advances the art form. This course has been approved to meet the UC/CSU "F" requirement.			

DIGITAL MEDIA PRODUCTION ADVANCED	001000	GRADES 12	NON A-G
Prerequisite: Digital Media 3-4			
This course concentrates on developing competencies across the breadth of film and video production, from script creation to presentation of the finished product. The course, a continuation from Digital Media 3-4, will continue to develop students' skills in writing, directing, acting, producing, storyboarding, scheduling, cinematography, lighting design, audio engineering, and editing. Students will facilitate and mentor students from lower-level courses and manage projects throughout the production process. Students will be exposed to industry standard professional tools and will be expected to manage large-scale projects such as schoolwide broadcasts, campus film projects, and to enter their work into local and national media contests. This course is repeatable. This course may be used to meet the			

PUSD Fine Arts requirement.

DRAMA 1 <i>This course is also listed under Visual and Performing Arts</i>	000345	GRADES 9-12	UC/CSU "F"
<p>Drama 1 is a survey course which includes many facets of dramatic activity. Included are basic storytelling, voice and diction, reader's theater, pantomime, and improvisational exercises. The students will be requested to visit at least one selected rehearsal or performance of a school play each quarter. Drama may be applied to the Fine Arts requirement but not the English requirement. This course has been approved to meet the UC/CSU "F" requirement.</p>			
<p><i>Teacher Comments: Drama 1 is a Career in Technical Education (CTE) class, which means this class will prepare you for a career in theatre performance and production. Drama 1 focuses on basic acting skills, ensemble building, improvisation, and performance analysis and critique. Students will participate in a variety of acting exercises, activities, and assignments to help them learn about the fundamentals of acting. Additionally, students will learn about theatre history and theatre production.</i></p>			

DRAMA 2 <i>This course is also listed under Visual and Performing Arts</i>	000346	GRADES 9-12	UC/CSU "F"
<p>Prerequisite: Drama 1</p>			
<p>Drama 2 is a course in which students do creative exercises to illustrate characters and situations, as well as improvisational exercises. It is a beginning study of theater with in-depth looks at structure of theater and plays and more improvisations and pantomimes. Students will visit movies and plays and be able to write a critique of them. At least one basic scene and/or series of pantomimes must be presented. Also included is a study of the function of the playwright, the actor, the director, and the technicians. In addition, the students will study the written scripts of four genres: melodrama, comedy, farce, and modern drama. Drama may be applied to the Fine Arts requirement but not the English requirement. This course has been approved to meet the UC/CSU "F" requirement.</p>			
<p><i>Teacher Comments: Drama 2-6 focuses on performance, playwriting, theatre production, and theatre history. Students will participate in a variety of acting exercises, activities, and assignments to help them sharpen their acting skills. Higher level courses (Drama 3-4 and Drama 5-6) will have more challenging assignments. This is a Career and Technical Education (CTE) class and is designed to prepare you for a job in the theatre industry.</i></p>			

DRAMA 3 <i>This course is also listed under Visual and Performing Arts</i>	000347	GRADES 9-12	UC/CSU "F", "G"
<p>Prerequisite: Drama 1-2 or teacher recommendation</p>			
<p>Drama 3 is an intermediate acting course. Included in the course is a study of the history of the theater and changes in acting styles. Students are expected to perform scenes or plays from classical literature after studying the influences of the various periods on costumes, movement, and makeup. Students are expected to investigate the technical side of theater with regard to designing lighting, costuming, and creating special makeup, along with knowing the function of a playwright, actor, director, and technician. Drama may be applied to the Fine Arts requirement but not the English requirement. This course has been approved to meet the UC/CSU "F" or "G" requirement.</p>			
<p><i>Teacher Comments: Drama 2-6 focuses on performance, playwriting, theatre production, and theatre history. Students will participate in a variety of acting exercises, activities, and assignments to help them sharpen their acting skills. Higher level courses (Drama 3-4 and Drama 5-6) will have more challenging assignments. This is a Career and Technical Education (CTE) class and is designed to prepare you for a job in the theatre industry.</i></p>			

DRAMA 4 <i>This course is also listed under Visual and Performing Arts</i>	000348	GRADES 10-12	UC/CSU "F", "G"
Prerequisite: Drama 3 or teacher recommendation			
<p>Drama 4 is a course in play production. The course includes a detailed study of how plays are produced, designed, costumed, cast, and directed. Specifically, students are expected to choose material, prepare the prompt book, draw a floor plan of the set, draw a set elevation, and design appropriate costumes for each character. Additionally, students are expected to collect a "makeup morgue," to arrange the rehearsal schedule, and to act in two scenes for other directors. A continuing study is made of theater history and additional styles and terminology. Students will begin to learn principles of directing and technical theater as well as produce a trimester project and participate in much scene work. This is a performance class. Drama may be applied to the Fine Arts requirement but not the English requirement. This course has been approved to meet the UC/CSU "F" or "G" requirement.</p>			
<p><i>Teacher Comments: Drama 2-6 focuses on performance, playwriting, theatre production, and theatre history. Students will participate in a variety of acting exercises, activities, and assignments to help them sharpen their acting skills. Higher level courses (Drama 3-4 and Drama 5-6) will have more challenging assignments. This is a Career and Technical Education (CTE) class and is designed to prepare you for a job in the theatre industry.</i></p>			

DRAMA 5 <i>This course is also listed under Visual and Performing Arts</i>	000349	GRADES 10-12	UC/CSU "F", "G"
Prerequisite: Drama 4 or teacher recommendation			
<p>Drama 5 continues the application of the play direction techniques introduced in Drama 4. Students are expected to select a trimester project and carry it to culmination in presentation and evaluation by an audience. In addition, students are expected to perform in scenes from classic, modern British, and modern American dramatic literature, as well as to research a selected topic. Students are also expected to develop a prompt book which demonstrates an increased attention to detail, steady improvement in basic techniques, and heightened creativity. Also elements of theater management will be covered. Drama may be applied to the Fine Arts requirement but not the English requirement. This course has been approved to meet the UC/CSU "F" or "G" requirement.</p>			
<p><i>Teacher Comments: Drama 2-6 focuses on performance, playwriting, theatre production, and theatre history. Students will participate in a variety of acting exercises, activities, and assignments to help them sharpen their acting skills. Higher level courses (Drama 3-4 and Drama 5-6) will have more challenging assignments. This is a Career and Technical Education (CTE) class and is designed to prepare you for a job in the theatre industry.</i></p>			

DRAMA 6 <i>This course is also listed under Visual and Performing Arts</i>	000350	GRADES 10-12	UC/CSU "F", "G"
Prerequisite: Drama 5 or teacher recommendation			
<p>Drama 6 is a course in which students explore advanced methods and techniques of acting, interpretation, and direction. Students are expected to participate in classroom scenes and touring productions. Students are expected to research an individually selected topic. Costuming and makeup are also to be covered in this course. This is essentially a director's laboratory/workshop and a performance class with scenes and projects. Drama may be applied to the Fine Arts requirement. This course has been approved to meet the UC/CSU "F" or "G" requirement.</p>			
<p><i>Teacher Comments: Drama 2-6 focuses on performance, playwriting, theatre production, and theatre history. Students will participate in a variety of acting exercises, activities, and assignments to help them sharpen their acting skills. Higher level courses (Drama 3-4 and Drama 5-6) will have more challenging assignments. This is a Career and Technical Education (CTE) class and is designed to prepare you for a job in the theatre industry.</i></p>			

PHOTOGRAPHY 1 <i>This course is also listed under Visual and Performing Arts</i>	000872	GRADES 10-12	UC/CSU "F"
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Photography 1 provides a media that allows the student a pragmatic method of application of chemistry, art, and physics, as well as an introduction to vocational possibilities in the field of photography. This course will deal primarily with learning to properly use photo developing equipment and different cameras. Students may receive Fine Arts or Practical Arts credit for this class. This course has been approved to meet the UC/CSU "F" requirement.

PHOTOGRAPHY 2 <i>This course is also listed under Visual and Performing Arts</i>	000873	GRADES 10-12	UC/CSU "F"
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Prerequisite: Photography 1

Photography 2 will continue fine tuning the technical skills learned in Photography 1. Students will learn to use a camera as a way of communication and creative expression. Imagination, emotion, and aesthetic perception will be stressed through proper organization of photographic elements and composition. The history of photography, and critical evaluation of prints will be emphasized throughout the course. Students may receive Fine Arts or Practical Arts credit for this class. This course has been approved to meet the UC/CSU "F" requirement.

PHOTOGRAPHY 3-4 <i>This course is also listed under Visual and Performing Arts</i>	000874-000875	GRADES 10-12	UC/CSU "F", "G"
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Prerequisite: Photography 1-2

Photography 3-4 emphasizes applications of photography; for example, journalism, magazine articles, offset printing (textbook), electronic schematics, portraiture. This course provides the opportunity for students to explore creative and career opportunities within many different areas. Students may receive Fine Arts or Practical Arts credit for these classes. This course has been approved to meet the UC/CSU "F" or "G" requirement.

PHOTOGRAPHY 5-6	000870-000871	GRADES 11-12	NON A-G
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Prerequisite: Photography 1-4

Students in Photography 5-6 focus on portfolio development and further refinement of skills needed for careers in commercial photography, editing, and photojournalism. Students will begin to expand their own personal artistic style through individualized assignments, class critiques, and written self-reflection. Experimentation and creativity is encouraged at every level of design: conception, editing, and presentation. Written assessments on art intent will be evaluated, and students will engage in daily aesthetic valuing through verbal and short written response in class during discussions and lecture. Upon Board approval this course will be submitted for UC/CSU "F" credit. Upon successful completion of the course, students will earn fine art credit towards high school graduation.

SOUND PRODUCTION AND ENGINEERING 1-2 <i>This course is also listed under Visual and Performing Arts</i>	000110-000111	GRADES 10-12	UC/CSU "F" "G"
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Prerequisite: High School English 1-2

Sound Production and Engineering is an introduction to basic Musical Instrument Digital Interface (MIDI) concepts, soundboards and recording devices, performance production and techniques. Topics include soundboard engineering, keyboard programming, sound modules, sequencing, and electronic music production. Students will also gain a working knowledge of the equipment, including computer equipment performances per year to help prepare for their recording experience. Students gain experience in mixing down and outputting source music projects by working with analog and digital mixing technology. This course has been approved to meet the UC/CSU "F" requirement.

STUDIO ART <i>This course is also listed under Visual and Performing Arts</i>	000150	GRADES 10-12	UC/CSU "F"
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Studio Art is for those students who have advanced skills in drawing, painting, and three-dimensional design. The course assists these students in preparation of a portfolio for application to, and scholarships to, institutes granting degrees in visual arts. Through oral discussions and writing in research/response journals, the students will address subject, form, and content in works of historical, contemporary, and personal art. This course has been approved to meet the UC/CSU "F" requirement.

TECHNICAL PRODUCTION FOR THEATER 1-2 <i>This course is also listed under Visual and Performing Arts</i>	000340-000341	GRADES 9-12	UC/CSU "F"
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Technical Production for the Theater 1-2 is a course which covers the basics of set design and construction, lighting, costuming, sound, makeup, and stage management. Specifically, students will be expected to design, construct, and paint flats, to plan and draw a lighting plot for a play, to operate a lighting board, and to choose costume designs and colors for characters in a play. In addition, students will be expected to operate the equipment used in sound effects and musical background for a play, to plan and apply makeup for play characters, and to act as stage manager. This course has been approved to meet the UC/CSU "F" requirement.

Teacher Comments: Technical Production for Theater 1-2 is a Career in Technical Education (CTE) class, which means this class will prepare you for a career in technical theatre and theatre production. This class focuses on technical theatre, production, and design. Students will participate in hands-on activities to learn about painting, set building, design, lighting and sound technology, and how to safely and properly operate a variety of tools and power tools.

TECHNICAL PRODUCTION FOR THEATER 3-4 <i>This course is also listed under Visual and Performing Arts</i>	000342-000343	GRADES 10-12	UC/CSU "F" "G"
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Prerequisite: Technical Production for Theater 1-2

Technical Production for the Theater 3-4 is a practical theater class which continues to build on knowledge, experience, and interest acquired in 1-2. Students will be able to perform the varied "behind the scenes" tasks at a level of expertness which would make them eligible for theater employment. This course does not apply to the English or Fine Arts graduation requirements but it has been approved to meet the UC/CSU "F" or "G" requirement.

Teacher Comments: Technical Production for Theater 3-4 is a Career in Technical Education (CTE) class, which means this class will prepare you for a career in technical theatre and theatre production. This class focuses on advancing students' knowledge in technical theatre, production, design, and theatre jobs. Students will participate in hands-on activities to sharpen their skills in the areas of painting, set building, design, lighting and sound technology.

THEATER ARTS STUDY AND PERFORMANCE 7-8 <i>This course is also listed under Visual and Performing Arts</i>	000351-000352	GRADES 10-12	UC/CSU "F", "G"
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Prerequisite: Teacher recommendation

This course is intended for those students who are ready to make an in depth commitment to the study and performance of theatre. Students will continue to hone and expand their skills in performance, design, stagecraft and theatre management through the process of selecting and producing plays from a variety of theatre genres for public performance. This course has been approved to meet the UC/CSU "F" or "G" requirement.

Teacher Comments: Theater Studies 7-8 focuses on performance, playwriting, theatre production, directing, and theatre history. Students will participate in a variety of acting exercises, activities, and assignments to help them sharpen their acting skills. This is a Career and Technical Education (CTE) class and is designed to prepare you for a job in the theatre industry.

ENGINEERING AND ARCHITECTURE

ARCHITECTURAL DESIGN (AD) 1-2 <i>This course is also listed under Visual and Performing Arts</i>	000846-000847	GRADES 9-12	UC/CSU “F”, “G”
<p>Architectural Design includes the study and application of the elements and principles of design, the study of the history of ancient architecture from Catal Huyuk to the Ancient Baroque and its relevant vocabulary and structural devices, and an introduction to basic sketching and technical drawing skills. Students will experience working with different mediums (a variety of different pencils, charcoal, pen and ink, watercolor, tempera, and clay) to copy ancient structures and to design their own structures using various construction devices. Architectural Design 1-2 meets PUSD Fine Art or Practical Art credit, PUSD Computer Literacy/Competency, and UC/CSU “F” or “G” Elective Credit (Students must complete 1 and 2 to receive UC/CSU “F” credit).</p>			
<p><i>Teacher Comments: Architectural Design 1-2 focuses on the art of architecture. Students will study the history of architecture and design a set of architectural plans using Computer Aided Design software (Autodesk Revit) of their dream home. Students will have fun as they create a 3D model of their future dream house and create an interior design plan. The course includes the study and application of the elements and principles of design, the study of the history of ancient architecture from Stonehenge to Baroque and its relevant vocabulary and structural devices, and an introduction to basic sketching and technical drawing skills. The course work is primarily in class with little homework.</i></p>			
CIVIL ENGINEERING AND ARCHITECTURE (CEA) 1-2 <i>This course is also listed under College Prep Electives</i>	000937-000938	GRADES 10-12	UC/CSU “G”
<p>Prerequisite: Recommended to take Pre-Engineering and Design 1 or 2 with CEA, CIM, or EDD</p>			
<p>Civil Engineering and Architecture is a specialization course in the sequence of Project Lead the Way Engineering courses. This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields upon each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers topics such as: Project Planning, Site Planning, Building Design, Project Documentation and Presentation. Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software. This course has been approved to meet the UC/CSU “G” requirement.</p>			
COMPUTER INTEGRATED MANUFACTURING (CIM) 1-2	000888-000889	GRADES 10-12	UC/CSU “G”
<p>Prerequisite: Integrated Math Ia-Ib; recommended to take Pre-Engineering and Design 1 or 2 with CEA, CIM, or EDD</p>			
<p>Computer Integrated Manufacturing is a high school level course for 10th, 11th, or 12th grade students who are interested in manufacturing and automation. It is recommended for students who have successfully completed the Introduction to Engineering Design (IED) course or Principles of Engineering course (POE). Computer Integrated Manufacturing (CIM) is the study of manufacturing, planning, integration, and implementation of automation. The course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design, and reflects the integrated approach that leading manufacturers have adopted to improve safety, quality, and</p>			

efficiency.

Computer Integrated Manufacturing is one of the specialization courses in the Project Lead the Way high school engineering program. The course applies and concurrently develops secondary-level knowledge and skills in mathematics, science, and technology. This course has been approved to meet the UC/CSU “G” requirement.

ENGINEERING DESIGN AND DEVELOPMENT (EDD) 1-2

This course is also listed under College Prep Electives

000864-000865

GRADES 11-12

UC/CSU “G”

Prerequisite: Integrated Math Ia-Ib; recommended to take Pre-Engineering and Design 1 or 2 with CEA, CIM, or EDD

Engineering Design and Development (EDD) is the capstone course in the Project Lead the Way (PLTW) high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies, and concurrently develops, secondary level knowledge and skills in mathematics, science, and technology. Utilizing the Activity-Project-Problem-Based (APPB) teaching and learning pedagogy, students will perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams of students will design, build, and test their solutions. Finally, student teams will present and defend their original solutions to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of the design process. EDD is a high school level course that is appropriate for juniors or seniors. Since the projects on which students work vary with student interest, and the curriculum focuses on the development of problem solving skills, EDD is appropriate for students who are interested in any technical career path. This course has been approved to meet the UC/CSU “G” requirement.

HONORS PRINCIPLES OF ENGINEERING (POE) 1-2

This course is also listed under College Prep Electives

000886-000887

GRADES 9-12

UC/CSU “G”

Prerequisite: Grade of C or higher in Integrated Math Ia-Ib; recommended to take Introduction to Engineering Design 1 or 2 with POE

Honors Principles of Engineering (POE) 1-2 is a high school-level survey course of engineering and physics topics. The course exposes students to many core concepts in physics and engineering that they will encounter in a postsecondary engineering course of study, including kinematics, energy, power, materials, structures, control systems, and statistics. As part of the Project Lead the Way Engineering pathway curricula, this course provides students the opportunity to develop skills and gain an understanding of Engineering concepts through laboratory activities, projects, and problem-based learning. This course has been approved to meet the UC/CSU “G” requirement.

Teacher Comments: This course is a lot of fun, as students will work with fuel cell technology by building a fuel cell car and boat, learn about civil engineering by designing bridges, create electronic projects, and design, code and build robots for future space exploration. The course work is primarily in class with little homework. As part of the National Project Lead the Way Engineering pathway curricula, students will take a national engineering test to receive college credit to any university or college. For PUSD graduation requirements, the course fulfills your UC/CSU ‘g’ College Prep Elective Credit or your UC/CSU ‘d’ Science Credit counting toward your 3rd year of science for college admittance. This course is on a weighted 5.0 scale.

INTRODUCTION TO DESIGN (ID) 1-2 <i>This course is also listed under Visual and Performing Arts</i>	000172-000173	GRADES 9-12	UC/CSU "F"
Prerequisite: Grade of C or higher in Integrated Math 1a-1b; recommended to take Introduction to Engineering Design 1 or 2 with ID			
Part of the Project Lead the Way Engineering pathway curricula. The course is an in-depth, project-based course that concentrates on principles of visual design and the design process. Projects focus on design factors such as aesthetics, format, geometric shape and form, perspective drawing, scale, proportion, and presentation techniques. Students use computers as a medium/tool for the design of project components such as sketching techniques, orthographic drawing, and 3D modeling and rendering. Assignment requirements are based on color, form and aesthetics with an emphasis on the stages of the design process and critical thinking. The curriculum involves details around the concept of 'form follows function' aspects and the effects of successful presentation. Students explore various materials and media for self-expression and learn to express opinions through class critiques and oral presentations. Class projects include toy design, abstract pattern design, architectural model building, poster and brochure design, and design of various products such as desktop organizers and amusement park rides. Design tools will include 3D modeling and other computer software. This course has been approved to meet the UC/CSU "F" requirement.			
<i>Teacher Comments: Introduction to Engineering Design is a project-based course that concentrates on the Engineering Design process focusing on the Principles and Elements of Design, 3D Modeling, Reverse Engineering, and Design Challenges. Students will learn how to use professional software in designing a toy car and other projects of their very own, such as a marshmallow cannon or automata and building a functional prototype. It is a lot of fun, as students get to work with peers designing and coming up with solutions to engineering problems through competitions or games. The course work is primarily in class with little homework. As part of the national Project Lead the Way Engineering Pathway curricula, students will take a national engineering test to receive college credit to any university or college.</i>			

PRE-ENGINEERING AND DESIGN (PED) 1-2 <i>This course is also listed under College Prep Electives</i>	000850-000851	GRADES 10-12	UC/CSU "G"
Pre-Engineering and Design is an in-depth, hands-on course that concentrates on Industrial Design/Technology and is divided into four units: Technical Illustration and Design, Aesthetic Theories and Creativity, Computer-Aided Drafting, and Modeling. This course will give students the opportunity to use technology to learn about Engineering and Industrial Design. This course has been approved to meet the UC/CSU "G" requirement. This course may be used to meet the PUSD Practical Arts requirement.			

INFORMATION AND COMMUNICATION TECHNOLOGY

INTRODUCTION TO COMPUTER PROGRAMMING 1-2 <i>This course is also listed under College Prep Electives</i>	001058-001059	GRADES 9-12	UC/CSU "G"
Prerequisite: Grade of C or higher in Integrated Math Ia-Ib			
Introduction to Computer Programming 1-2 will introduce the students to the current computer programming language. Students will learn to develop algorithms, computer programming in the computer language, as well as learn the Windows XP operating system. The primary emphasis will be to learn the proper and efficient use of standard commands, structures, and statements in the computer programming language. This course will stress logic and analytical thinking skills. It is recommended for the college bound student planning on a business, math, or computer science major. This course is designed for the student planning to take AP Computer Science 1-2. This course has been approved to meet the UC/CSU "G" requirement.			

AP COMPUTER SCIENCE A 1-2 <i>This course is also listed under College Prep Electives</i>	001056-001057	GRADES 10-12	UC/CSU "G"
Prerequisite: Grade of C or higher in Integrated Math Ia-Ib			
AP Computer Science Principles is designed as a college-level introduction to a computer science course for non-computer science majors. The course focuses on computational thinking and fluency. In order to gain a basic understanding of computers and computation, students will: learn about the impacts of computing; identify abstractions and learn how to use them in computing; be given solutions to computer programs to analyze for correctness and to engage in discussions about the solutions; and create computational artifacts, working individually and in teams. This course has been approved to meet the UC/CSU "G" requirement.			
Teacher Comments:			

AP COMPUTER SCIENCE PRINCIPLES 1-2 <i>This course is also listed under College Prep Electives</i>	001078-001079	GRADES 10-12	UC/CSU "G"
Prerequisite: Grade of C or higher in Integrated Math Ia-Ib			
AP Computer Science Principles is designed as a college-level introduction to a computer science course for non-computer science majors. The course focuses on computational thinking and fluency. In order to gain a basic understanding of computers and computation, students will: learn about the impacts of computing; identify abstractions and learn how to use them in computing; be given solutions to computer programs to analyze for correctness and to engage in discussions about the solutions; and create computational artifacts, working individually and in teams. This course has been approved to meet the UC/CSU "G" requirement.			
Teacher Comments:			

TRANSPORTATION/AUTOMOTIVE

AUTOMOTIVE TECHNOLOGY 1-2	000901-000902	GRADES 9-12	NON A-G
Automotive Technology 1-2 is an introductory automotive technology course for the transportation industry sector's Systems Diagnostics and Service career pathway. It focuses on three concentration areas of the National Automotive Technical Education Foundation (NATEF) standards. The course qualifies for NATEF accreditation, and students are encouraged to take the Auto Service Excellence (ASE) examination upon course completion. Successful completion of this course earns elective credit.			

AUTOMOTIVE TECHNOLOGY 3-4	000903-000904	GRADES 10-12	NON A-G
Prerequisite: Automotive Technology 1-2			
Automotive Technology 3-4 is the second course for the transportation industry sector's Systems Diagnostics and Service career pathway. This is an intermediate-level automotive technology course that provides students with the technical training needed to pursue career opportunities at independent and manufacturer-dealership automotive repair facilities. The course focuses on two concentration areas of the National Automotive Technician Education Foundation (NATEF) standards and qualifies for NATEF accreditation. Students are encouraged to obtain industry certification by taking the Automotive Service Excellence (ASE) examination upon completion of this course. Students who successfully complete this course will earn elective credit.			

AUTOMOTIVE TECHNOLOGY 5-6	000916-000917	GRADES 11-12	NON A-G
Prerequisite: Automotive Technology 1-4			
<p>Automotive Technology 5-6 is the third course for the transportation industry sector's Systems Diagnostics and Service career pathway. Automotive Technology 5-6 is an advanced automotive technology course that focuses on three concentration areas of the National Automotive Technician Education Foundation (NATEF) standards and meets the requirements for NATEF accreditation. Students are encouraged to take the Automotive Service Excellence (ASE) examination upon completion of this course. This course also reinforces all eight areas of the National Automotive Technician Education Foundation (NATEF) standards. Students in this course are encouraged to participate in an automotive internship, with related classroom instruction occurring at least one hour a week. Supplemental NATEF tasks that require advanced critical-thinking and problem-solving skills are augmented by in-class coursework. Students who successfully complete this course earn elective credit.</p>			

AUTO BODY REPAIR/REFINISHING	000908	GRADES 11-12	NON A-G
<p>Auto Body Repair/Refinishing provides entry-level skills, upgrading of existing skills, and advanced skills training for people interested in the automotive field. Upon completion, students would be employable as an auto prepper, body mechanic, or auto painter. This course is designed to teach students the basic skills in auto body repairing and painting, including safety; use of tools and equipment; replacement components and trim; metal straightening by hammering, grinding, and sanding; refinishing materials; masking and taping; paints; thinners, and reducers; spraying primers and finish coats; and detailing completed cars. Job-getting/job keeping skills are also taught. Students learn the course material through lecture/teacher demonstration (20%), individual/self-directed instruction (20%), and shop/lab experiences (60%). Some of the major equipment/tools/instruments used in class are the air file, air sander, welding machine frame straightener, and basic hand tools required for auto body repair. Approximately 215 hours of attendance are required for course completion. Student ability and rate of progress will determine length of course for certification. This course may be used to meet PUSD Practical Arts requirement.</p>			

OTHER ELECTIVES

ACADEMIC TUTOR - ALL SUBJECTS	001864	GRADES 11-12	NON A-G
<p>This course will provide students with improved communication and organizational skills in addition to increased mastery of academic content area skills. Under the supervision of a classroom teacher, tutors will provide individual or small group facilitation designed to increase students' ability to think, read, write and communicate critically. The design of the course provides tutors with necessary tools and processes to work most effectively with students in a one on one or group study environment. Students will receive instruction from their supervising teacher within the context of the class. Successful completion of this course will earn elective credit.</p>			

ASB PLANNING AND LEADERSHIP	001879-001880	GRADES 9-12	NON A-G
<p>Prerequisite: Peer elections and/or peer interviews; consent of supervising ASB director</p>			
<p>Planning and leadership focuses on developing the leader within students. During the process of developing leadership skills, students learn effective small and large group communication skills, time management, decision and problem solving skills, parliamentary procedure, and financial management. Members of the class actively participate in student activities and student government. This course meets the PUSD Practical Arts requirement.</p>			

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