

Bellflower High School

COURSE DESCRIPTIONS

A) HISTORY/SOCIAL SCIENCE

WORLD GEOGRAPHY (4140 Semester)

World Geography is a semester class dedicated to the study of the five geographic themes of location, place, interaction, movement and regions. This course includes rigorous assignments and special projects. It is an expectation that each student completes a Civic Investigation project relative to the class curriculum and participate in the Annual Bellflower Civics Fair.

This course meets the UC/CSU a-g requirements in the following category: (a) – History/Social Science.

AP HUMAN GEOGRAPHY (4144 Year)

This year-long course is available to students in grades 9 – 12, and it may be taken in lieu of World Geography. This course is concerned with the ways in which patterns on Earth's surface reflect and influence physical and human processes. Looking at the world from a spatial perspective, students seek to understand the changing spatial organization and material character of Earth's surface. Students will utilize geographical tools to learn about population changes, migration patterns, cultural patterns, political organization of space, agricultural and industrial development, and land usage. It is an expectation that each student completes a Civic Investigation project relative to the class curriculum and participate in the Annual Bellflower Civics Fair.

Recommended Prerequisite: It is recommended that advanced students should take this course only if they received at least a B in their social studies course the previous year. Students who pass the AP Human Geography exam may receive college credit. Therefore, the course models college level work in both content and pacing. A summer assignment may be required by the instructor in order to enroll in the course.

This course meets the UC/CSU a-g requirements in the following category: (a) – History/Social Science.

MODERN WORLD HISTORY (4200 Year)

This is a 10th grade course that deals with the significant developments throughout the world from the late 18th Century to the present. It will emphasize the political, cultural and social events that have shaped modern civilizations. Geography will be studied as it relates to the content of the course. It is an expectation that each student completes a Civic Investigation project relative to the class curriculum and participate in the Annual Bellflower Civics Fair.

This course meets the UC/CSU a-g requirements in the following category: (a) – History/Social Science.

ADVANCED PLACEMENT (AP) WORLD HISTORY (4211 Year)

The purpose of the AP World History course is to develop a greater understanding of the evolution of global processes and contacts, in interaction with different types of societies. The course highlights the nature of changes in international structures and their causes and consequences, as well as comparisons among major societies. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course. Specific themes provide further organization to this course. It is an expectation that each student completes a Civic Investigation project relative to the class curriculum and participate in the Annual Bellflower Civics Fair.

Recommended: Students who pass the AP World History exam may receive college credit. Therefore, the course models college level work in both content and pacing. A summer assignment may be required by the instructor in order to enroll in the course.

This course meets the UC/CSU a-g requirements in the following category: (a) – History/Social Science.

UNITED STATES HISTORY (4300 Year)

The year begins with a selective review of United States history with an emphasis on two major themes: the nation's beginnings and the industrial transformation of the new nation. The remainder of the course emphasizes the major turning points in American history in the twentieth century. It is an expectation that each student completes a Civic Investigation project relative to the class curriculum and participate in the Annual Bellflower Civics Fair.

This course meets the UC/CSU a-g requirements in the following category: (a) – History/Social Science.

ADVANCED PLACEMENT (AP) UNITED STATES HISTORY (4360 Year)

This college level course for 11th and 12th graders is designed to provide students with the analytical skills and factual knowledge necessary to assess critically the problems and issues in American history, including the analysis of primary documents. This course covers various social, cultural, intellectual and political aspects of the historical growth of the United States in world perspective from early exploration in the 1400's to the present. This course guides students in preparation for the AP exam in American history. It is an expectation that each student completes a Civic Investigation project relative to the class curriculum and participate in the Annual Bellflower Civics Fair.

Recommended: Students who pass the AP US History exam may receive college credit. Therefore, the course models college level work in both content and pacing. A summer assignment may be required by the instructor in order to enroll in the course.

This course meets the UC/CSU a-g requirements in the following category: (a) – History/Social Science.

UNITED STATES GOVERNMENT/POLITICAL SYSTEMS (4415 Year)

This course will provide students with an overview of the general principles, concepts, theories and actual operations of the American political system and contemporary issues. Emphasis is placed on the characteristics of American government and its interactions with the global community. Successful completion of this course satisfies state graduation requirements and prepares college-bound students for an introductory course in political science and develop a better understanding of their economic needs in society. It is an expectation that each student completes a Civic Investigation project relative to the class curriculum and participate in the Annual Bellflower Civics Fair.

This course meets the UC/CSU a-g requirements in the following category: (a) – History/Social Science.

ADVANCED PLACEMENT (AP) GOVERNMENT/POLITICAL SYSTEMS (4430 Year)

This is an introductory college course in American government and politics designed to assist students in their understanding of U.S. Constitutional underpinnings, political beliefs and behavior, political parties and interest groups, institutions (Congress, Presidency, Courts and the Federal Bureaucracy) and policy processes of the federal and state governments, civil rights and liberties and foreign policy. This course also guides students in preparation for the AP exam in American Government. It is an expectation that each student completes a Civic Investigation project relative to the class curriculum and participate in the Annual Bellflower Civics Fair. A summer assignment may be required by the instructor in order to enroll in the course.

This course meets the UC/CSU a-g requirements in the following category: (a) – History/Social Science.

ECONOMICS (4500 Semester)

This course will provide students with an overview of the general principles of micro-economic and macro-economic concepts and theories. Emphasis will be placed on the United States economy and its interaction with the global community. This course is designed to help students develop critical-thinking skills through the understanding, application and analysis of fundamental economic concepts. Students will apply quantitative and mathematical skills to economics. Also, students will be expected to apply economic logic to a wide variety of real-world and hypothetical situations.

This course meets the UC/CSU a-g requirements in the following category: (a) – History/Social Science.

ADVANCED PLACEMENT (AP) ECONOMICS (4499 Year)

This college level course will prepare students for both the Advanced Placement Examination in microeconomics and the Advanced Placement examination in macroeconomics. This course has been designed to help students develop critical-thinking skills through the understanding, application, and analysis of fundamental economic concepts.

Recommended: Students who pass the AP Micro/Macro Economics exams may receive college credit. Therefore, the course models college level work in both content and pacing. A summer assignment may be required by the instructor in order to enroll in the course.

This course meets the UC/CSU a-g requirements in the following category: (a) – History/Social Science.

SOCIAL SCIENCE ELECTIVE

INTRODUCTION TO LAW (4618 Year)

This course provides practical information and problem-solving opportunities regarding American law. Students develop both knowledge of the law and skills necessary for survival in our law based society. Students engage in active learning experiences such as mock trials, moot courts, role play, case studies, simulations and small group exercises. Students explore the definition of law, citizen's rights and responsibilities under the law, learn methods of dispute resolution, as well as identify and analyze public issues. Exploration of a variety of legal careers will be a theme throughout the course.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

B) ENGLISH-LANGUAGE ARTS

ENGLISH 9 (3250 Year)

ENGLISH 9 HONORS (3261 Year)

This course is aligned with the Common Core State Standards for grades 9 and 10 and is a survey of world literature featuring well-known writings and authors spanning from the Elizabethan to the Modern periods and representing works from a wide range of cultural perspectives. The goal is to develop an appreciation, through comparative analysis, of the author's structure, style, and purposes and the social and historical relevance these texts represent. Complex literary devices such as figurative language, imagery, symbolism, mood and tone are addressed. In order to develop skills of research, reasoning and argumentation, students will write a variety of compositions from 500 words (English 9) to as long as 1,000 words (English 9 Honors), using an organization, style and voice appropriate to the writing task. Students will work through the stages of the writing process as needed. Students will also be expected to develop speaking and listening skills and to learn new vocabulary.

This course meets the UC/CSU a-g requirements in the following category: (b) – English.

Honors Prerequisite: Students must have either earned a grade of B or better in Advanced English 8; a grade of C in Advanced English 8 with a teacher recommendation; or a grade of A in English 8 with teacher recommendation. Summer reading may be required; therefore, students must either attend the class informational meeting or meet with the current instructor prior to the semester they enroll in the class.

ENGLISH 10 (3420 Year)**ENGLISH 10 HONORS (3431 Year)**

This course is aligned with the Common Core State Standards for grades 9 and 10 and is a survey of world literature featuring well-known writings and authors spanning from the Elizabethan to the Modern periods and representing works from a wide range of cultural perspectives. The goal is to develop an appreciation, through comparative analysis, of the author's structure, style, and purposes, and the social and historical relevance these texts represent. Complex literary devices such as figurative language, imagery, symbolism, mood and tone are addressed. In order to develop skills of research, reasoning, and argumentation, students will write a variety of compositions from 500 words (English 10) to as long as 1,500 words (English 10 Honors), using an organization, style and voice appropriate to the writing task. Students will work through the stages of the writing process as needed. Students will also be expected to develop speaking and listening skills and to learn new vocabulary.

This course meets the UC/CSU a-g requirements in the following category: (b) – English.

Honors Prerequisite: Students must have earned either a grade of B or better in English 9 Honors or equivalent; a grade of C in English 9 Honors with a teacher recommendation; or grade of A in English 9 with a teacher recommendation. Summer reading may be required; therefore, students must either attend the class informational meeting or meet with the current instructor prior to the semester they enroll in the class.

ENGLISH 11 (3510 Year)

This course is aligned with the Common Core State Standard for grades 11 and 12 and involves the critical reading of American literature and the effective writing of a variety of types of compositions. Students study literary texts and documents, both fiction and nonfiction, spanning from the pre-revolutionary period, to the 21st Century. They will analyze and evaluate foundational U.S. documents and explore complex themes such as "The American Dream." In order to develop skills of research, reasoning, and argumentation, students will write a variety of compositions from 500 words to as long as 1,500 words, using an organization, style and voice appropriate to the writing task. Students will work through the stages of the writing process as needed. Students will also be expected to develop speaking and listening skills and to learn new vocabulary. Students are encouraged to integrate their learning with American history, a parallel course. Major core works may include non-fiction documents, speeches, texts and essays as well as novels, and drama selections.

This course meets the UC/CSU a-g requirements in the following category: (b) – English.

AP ENGLISH 11 - Language and Composition (3530 Year)

This course is aligned with the course framework for AP Language and Composition as developed by the College Board. The focus of this course is on nonfiction prose, rhetorical analysis, argumentation, and synthesis. Students read widely about a topic before crafting a position of their own. Arguments and language are deconstructed so that the elements of effective communication become transparent, accessible, and replicable. Students are expected to read independently, conduct research, and write both informal and formal responses to class readings and to current issues. Formal essays are both on demand timed writes and multi-draft essays ranging between 500 and 1500 words in length. Students will work through the stages of the writing process as needed. In addition to the study of rhetoric, students read works of American literature and consider the issues raised by these texts from an argumentative stance. Successful completion of class requirements will prepare students for the AP Language and Composition exam administered by the College Board in May. Because this course often serves as a substitute for the first-year composition course in many colleges and universities, it models college work in both content and pacing. Students passing the AP Language Composition exam may earn college credit.

This course meets the UC/CSU a-g requirements in the following category: (b) – English.

Recommended Prerequisite: It is recommended for students to have earned either a grade of B or better in English 10 Honors or equivalent, or a grade of A or better in English 10 with a teacher recommendation. Summer reading may be required; therefore, students must either attend the class informational meeting or meet with the current instructor prior to the semester they enroll in the class.

ENGLISH 12 (3610 Year)

This course is aligned with the Common Core State Standard for grades 11 and 12 and focuses on literature studied through the theme of The Individual and Society. Students study a variety of the extended works of British and American literature from the Anglo-Saxon time period to the 21st Century. In order to develop skills of research, reasoning, and argumentation, students will write a variety of compositions from 500 words to as long as 1,500 words, using an organization, style and voice appropriate to the writing task. Students will work through the stages of the writing process as needed. Students will also be expected to develop speaking and listening skills and to learn new vocabulary. Major core works studied include non-fiction letters, speeches and documents; novels; and drama selections.

This course meets the UC/CSU a-g requirements in the following category: (b) – English.

EXPOSITORY READING AND WRITING (ERW) ENGLISH 12 (3616 Year)

The grade 12 Expository Reading and Writing Course (ERWC) engages students in the discovery of who they are as persons, the realization of the ways in which they can participate in society, and their development as critical consumers and effective communicators within society. Teachers and schools build and personalize the yearlong course by selecting from approximately 40 modules (instructional units) to meet rigorous, college-preparatory learning goals in reading, writing, listening, and speaking for all students while promoting student interest and motivation. Employing a rhetorical, inquiry-based approach that fosters critical thinking, student agency, and metacognition, the course includes five to six full-length modules drawn from three categories: 1) Shakespeare drama; 2) full-length books; and 3) contemporary issues (three to four modules). In addition, the course includes two short portfolio modules and at least three mini-modules that address transferable skills applicable to conceptual development and practice across all modules, e.g., genre awareness, goal setting and self-assessment, rhetorical

situation, Aristotelian appeals. The core structure of all the modules—the Assignment Template—progresses along an “arc” from reading rhetorically (preparing to read, reading purposefully, and questioning the text) to preparing to respond (discovering what you think) to writing rhetorically (composing a draft, revising rhetorically, and editing). By the end of the course, students will have read a range of literary and nonfiction text genres and produced 10-12 culminating projects, including academic essays, creative writing and performances, and multimedia presentations/research reports, from initial draft to final revision and editing. Students who test “standard met” or “standard exceeded” in English on the Smarter Balanced assessment at the end of their junior year may demonstrate college readiness during their senior year by taking ERWC and earning a C or better during both semesters.

This course meets the UC/CSU a-g requirements in the following category: (b) – English.

AP ENGLISH 12- Literature and Composition (3630 Year)

This course is aligned with the course framework for AP Literature and Composition as developed by the College Board. Students in this course will learn techniques for the analysis of prose, poetry, and drama, including rhetorical devices, literary elements, literary devices, (such as metaphor and metonymy), sound devices, and literary modes of expression. The course will focus on analysis of style and thematic connections in major novels and poetry through a variety of genres including drama, fiction, narratives, nonfiction and persuasive essays, epics, and sonnets. Students write using a variety of prompts to hone upper level writing skills including thesis statements, organization, pacing, and mechanics. Successful completion of class requirements will prepare students for the AP Language and Composition exam administered by the College Board in May. This course may serve as a substitute for first year college literature in some universities; therefore, it models a college course in both content and pacing.

This course meets the UC/CSU a-g requirements in the following category: (b) – English.

Recommended Prerequisite: It is recommended for students to have either tested “standard exceeded” on the 11th grade English Smarter Balanced assessment, earned a grade of A or B in AP English 11, or a grade of A or better in English 11 with a teacher recommendation. Summer reading may be required; therefore, students must either attend the class informational meeting or meet with the current instructor prior to the semester they enroll in the class.

Dual Enrollment: English

BUSD, in partnership with Cerritos College, is offering dual enrollment course offerings on the Bellflower High School campus taught by Cerritos College faculty members. Students who qualify, will be dually enrolled at Cerritos College and Bellflower High School and earning college credit as well as high school units simultaneously. Interested students need to be complete a process that includes registering online for Cerritos College and completing the Cerritos College English Self-Report Tool (SRT). Due to the rigorous nature of the course, students can earn a full year of high school English credit in a semester's time. Space is limited for qualified students. Students are encouraged to speak to Mr. Castañeda, Assistant Principal for more information.

Prerequisite: Students must complete the Cerritos College student enrollment process and secure a valid Cerritos College student ID number. Students interested will sign up with their counselors and Cerritos College will determine eligibility and appropriate student placement. Due to the nature and rigor of the dual enrollment courses, classes will be double-period blocked, begin at zero period or 6th period (2:00 pm start) and will be limited to 30 students per class.

ENGLISH 100 (CC001 Semester)

English 100 (Freshman Composition) This course guides the student through the writing process to develop expository prose with an emphasis on effective organization and on correctness. The course meets transfer requirements for four-year 38 institutions (CSU and UC) and is required for the A.A. degree. This course is only available to incoming seniors and is equivalent to passing the AP English 11 or AP English 12 class and AP exam with a score of 3 or higher.

C) MATHEMATICS

INTEGRATED MATH 1 (7510 Year)

The purpose of Integrated Math 1 is to develop each student's ability to think mathematically and conceptually. In this course, students will learn how to analyze and model multiple representations of linear functions, inequalities, and systems. Students will learn how to communicate and make connections in order to understand real world situations and use algebraic reasoning to facilitate deeper learning. Students will also learn about exponential functions and how to compare and contrast them with linear functions. Linear and exponential concepts will also be used to identify and create arithmetic and geometric sequences. In addition, students will learn how to apply geometric reasoning with respect to transformations, constructions, and coordinate proofs.

This course meets the UC/CSU a-g requirements in the following category: (c) – Mathematics.

Minimum Course Requirement for 9th and 10th Grade Students

INTEGRATED MATH 2 (7511 Year)**INTEGRATED MATH 2 HONORS* (7513 Year)**

The focus of the Mathematics II course is on quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Mathematics I. Students will expand their experience with functions to include more specialized functions such as absolute value, step, and functions that are piecewise-defined. For the Mathematics II course, instructional time should focus on five critical areas: (1) extend the laws of exponents to rational exponents; (2) compare key characteristics of quadratic functions with those of linear and exponential functions; (3) create and solve equations and inequalities involving linear, exponential, and quadratic expressions; (4) extend work with probability; and (5) establish criteria for similarity of triangles based on dilations and proportional reasoning.

This course meets the UC/CSU a-g requirements in the following category: (c) – Mathematics.

Prerequisite INTEGRATED MATH 2: C or better in both semesters of Integrated Math I.

Prerequisite INTEGRATED MATH 2 Honors: Grade of "A" in Integrated Math I and/or teacher recommendation.

INTEGRATED MATH 3 (7512 Year)**INTEGRATED MATH 3 HONORS* (7514 Year)**

The focus of the Mathematics III course is extending the notion of functions to encompass polynomial functions, rational functions, radical and other inverse functions, logarithmic and exponential functions. Students will expand their experience with functions to include more specialized functions such as the trigonometric functions. For the Mathematics III course, instructional time should focus on four critical areas: (1) extend the understanding of angles to the unit circle and the graphs of the six trigonometric functions; (2) compare key characteristics of inverse functions (radical and logarithmic and inverse trigonometric), rational functions polynomial functions and cyclical functions with quadratic functions and linear and exponential functions; (3) create and solve equations that involve rational expressions, polynomial expressions, logarithmic or exponential as well as trigonometric expressions; (4) extend work with probability to discuss the normal curve.

This course meets the UC/CSU a-g requirements in the following category: (c) – Mathematics.

Prerequisite INTEGRATED MATH III: "C" or better in both semesters of Integrated Math II.

Prerequisite INTEGRATED MATH III Honors: "B" or better in Integrated Math II Honors OR teacher recommendation.

MATH ANALYSIS (7495 Year)

This course meets UC/CSU and District requirements for math credit. This course is designed to provide a comprehensive study of functions, which are the basis of calculus and other higher mathematics courses. The students will study the properties and graphs of trigonometric, polynomial, rational, inverse, exponential and logarithmic. During the second semester, inequalities, complex numbers, conic sections, matrices, sequences, and series.

This course meets the UC/CSU a-g requirements in the following category: (c) – Mathematics.

Prerequisite: C or better second semester of Integrated Math III.

MATH ANALYSIS HONORS (7496 Year)

This course meets UC/CSU and District requirements for math credit. This course is designed to provide a comprehensive study of functions, which are the basis of calculus and other higher mathematics courses. The students will study the properties and graphs of trigonometric, polynomial, rational, inverse, exponential and logarithmic. During the second semester, inequalities, polar coordinates, complex numbers, conic sections, matrices, vectors, sequences, series, and limits.

This course meets the UC/CSU a-g requirements in the following category: (c) – Mathematics.

Prerequisite: B or better both semesters of Integrated Math III recommended

ADVANCED PLACEMENT (AP) CALCULUS A/B (7500 Year)

AP Calculus AB is a college level introductory Calculus class. Students taking the course should plan to take the AP Examination at the end of the academic year. The course emphasizes a multi - representational approach to calculus with concepts, results, and problems expressed graphically, numerically, analytically, and verbally. The course teaches students how to communicate mathematics and explain solutions to problems both verbally and in sentences. Students will explore and apply the conceptual underpinnings of Calculus by examining the concept of the limit. Applications of limits such as the average rate of change in various disciplines will be addressed. In addition, the concept of limit will be extended to the idea of the derivative and integral in multiple representations and with applications to various disciplines. Successful completion of this course prepares students to take the Advanced Placement Calculus AB exam for college credit.

This course meets the UC/CSU a-g requirements in the following category: (c) – Mathematics. Prerequisite: B or better second semester of Math Analysis Honors, or teacher recommendation Graphing calculator required.

ADVANCED PLACEMENT (AP) CALCULUS B/C (7501 Year)

AP Calculus BC is the study of limits, derivatives, definite and indefinite integrals, polynomial approximations and (infinite) series. Though this is considered a study of single-variable calculus, parametric, and polar functions will be studied. Consistent with AP philosophy, concepts will be expressed and analyzed geometrically, numerically, analytically, and verbally. Calculus BC covers topics that are usually included in the first 2 semesters of college calculus. Successful completion of this course prepares students to take the AP Calculus BC exam for college credit.

This course meets the UC/CSU a-g requirements in the following category: (c) – Mathematics.

Prerequisite: A score of 3 or better on the AP Calculus AB exam.

BUSINESS MATHEMATICS (7201 Year)

This class covers personal finance and business math. In personal finance the following topics are covered: gross income, net income, checking and savings accounts, cash and credit accounts, loans, transportation costs, housing costs, insurance and investments. Business math covers the following topics: personnel, production, purchasing, sales, marketing, warehousing, and distributing, services, accounting, financial management and corporate planning.

Prerequisite: Students must have completed Algebra 1/Integrated Math 1. Open to incoming Seniors ONLY.

STATISTICS (7477 Year)

This is an introductory course that assumes no prior knowledge of statistics but does assume some knowledge of high school algebra. Basic statistical concepts and methods are presented in a manner that emphasizes understanding the principles of data collection and analysis rather than theory. Much of the course will be devoted to discussions of how statistics is commonly used in the real world. There are two major parts to this course: (I Data) – which includes graphical and numerical summaries to describe the distribution of a variable, or the relationship between two variables, and data production to learn how to design good surveys and experiments, collect data from samples that are representative of the whole population, and avoid common sources of biases. (II Probability and Inference) – using the language of probability and the properties of numerical summaries computed from a random sample, we learn to draw conclusions about the population of interest, based on our random sample, and attach a measure of reliability to them.

This course meets the UC/CSU a-g requirements in the following category: (c) – Mathematics.

Prerequisite: C or better second semester of Integrated Math 3, Senior students only

Computer Science Principles (2243 Year)

Computer Science (CS) Principles aims to broaden participation in computer science and computing by introducing students to the main concepts of computer science, having them engage in computational thinking practices and learning how computing influences the world. The main goal of the CS Principles course is to provide students a foundation in computer science concepts and practices so that students learn to reason using computational thinking and critical thinking skills. This course will engage students in the problem-solving and creative aspects of the field by creating products that involve the computational process the same way real-world professionals do. By applying the content and skills emphasized in the course, namely, problem-solving, abstraction, the use of and analysis of data, algorithmic thinking, creativity, programming, the effects of the Internet, and global impacts of computing, students will engage in rigorous instruction in order to become active and informed citizens in a global and technologically-driven society.

Prerequisite: C or better in both semesters of Integrated Math I.

This course meets the UC/CSU a-g requirements in the following category: (c) – Mathematics or (g) – College Preparatory Elective.

CTE Pathway: This course is course 1 (concentrator course) in the Software & Systems Development Pathway

D) SCIENCE

BIOLOGY OF THE LIVING EARTH (6201 Year)

This new course is based upon the Next Generation Science Standards. The areas of study include: cells, biochemistry, genetics, microbiology, evolution, physiology, and ecology. Students will utilize basic tools of biology including dissecting equipment, microscopes, lab equipment and chemical agents. Students will learn to apply the scientific method to their studies. This course counts toward life science graduation requirements. This investigative laboratory-oriented course emphasizes the basic structural, physiological, ecological, evolutionary, and genetic principles as they pertain to living organisms. Critical thinking and problem solving are integral components of the curriculum. The course is also designed to help all students develop an appreciation of the natural world and an understanding of biology's role in society.

This course meets the UC/CSU a-g requirements in the following category: (d) – Laboratory Science.

CHEMISTRY IN THE EARTH SYSTEM (6301 Year)

Chemistry in the Earth System (3-course model) courses typically cover topics such as combustion, heat and energy in the Earth system, atoms, elements, and molecules, chemical reactions, chemistry of climate change, dynamics of chemical reactions and ocean acidification. This course presents students with the opportunity to consider the impact of chemical reactions on the global climate system. This course presents an integration of Earth and space science and chemistry but maintains an emphasis on chemistry.

This course meets the UC/CSU a-g requirements in the following category: (d) – Laboratory Science.

PHYSICS IN THE UNIVERSE (6351 Year)

Physics of the Universe courses (3-course model) typically cover topics such as forces and motion, gravity and electromagnetism, energy conversion, nuclear processes, waves, electromagnetic radiation, stars and the origin of the universe. Physics of the Universe courses present opportunities for students to participate in engineering design challenges related to energy conversion. This course integrates engineering and environmental principles into the curriculum but maintains an emphasis on physics.

This course has been submitted for UC/CSU approval in the following category: (d) – Laboratory Science.

ADVANCED PLACEMENT (AP) BIOLOGY (6210 Year)

This course is a college level biology course that prepares students for the Advanced Placement exam. The topics studied are evolution, energy transformation, genetics, unity and diversity and ecological interactions. This class stresses the themes that unite these topics. Essay

writing skills are critical. There are numerous laboratory activities that require extended commitments beyond the normal school day. Extensive study is required.

This course meets the UC/CSU a-g requirements in the following category: (d) – Laboratory Science.

Prerequisite: Grade 11 and 12, a B average in Biology, a B average in Chemistry, and teacher recommendation.

Summer Reading: Students will be tested on chapter readings on the first day of school. All assignments will also be due at that time. See instructor for details.

ADVANCED PLACEMENT (AP) CHEMISTRY (6330 Year)

This course is for students interested in deepening their background in the physical sciences and prepares students to take the AP exam in Chemistry. The course presents an extension of some topics studied in Chemistry and introduces advanced topics in Chemistry. The course challenges students with learning activities equivalent to those of a first-year college Chemistry class. Lectures, demonstrations, and student-performed laboratory exercises are used to deepen students' understanding of advanced topics. Successful students will attain an in depth understanding of chemical concepts, laboratory experience and some knowledge of current directions in chemical research. This course will include laboratory classes outside of normal school hours to be scheduled after school or at other suitable times.

This course meets the UC/CSU a-g requirements in the following category: (d) – Laboratory Science.

Course Prerequisite: Grade 11 or 12; Integrated Math 1 with B or better; 1 year chemistry with B or better; Physics with a grade of B or better (or current enrollment in Physics) strongly recommended; teacher recommendation.

ADVANCED PLACEMENT (AP) PHYSICS 1 (Algebra-based) (6361 Year)

Students explore principles of kinematics; Newton's laws of motion; torque; rotational motion and angular momentum; gravitation and circular motion; work, energy, and power; linear momentum; oscillations, mechanical waves and sound; introduction to electric circuits. The course is based on the "big ideas" in physics, which encompass core scientific principles, theories and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world, such as: (1) Objects and systems have properties such as mass and charge. Systems may have internal structure. (2) Fields existing in space can be used to explain interactions. (3) The interactions of an object with other objects can be described by forces. (4) Interactions between systems can result in changes in those systems. (5) Changes that occur as a result of interactions are constrained by conservation laws. (6) Waves can transfer energy and momentum from one location to another without the permanent transfer of mass and serve as a mathematical model for the description of other phenomena.

This course meets the UC/CSU a-g requirements in the following category: (d) – Laboratory Science.

Prerequisite: Grade 11 or 12; Integrated Math 2 with B or better; Chemistry with B or better; Physics with a B or better (or concurrent enrollment in Physics) strongly recommended; teacher recommendation.

ADVANCED PLACEMENT (AP) ENVIRONMENTAL SCIENCE (6383 Year)

This course is a college level science course that prepares students for the Advanced Placement exam in Environmental Science. The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Writing and math skills are critical. There are numerous laboratory activities that require extended commitments beyond the normal school day. Extensive study is required.

This course meets the UC/CSU a-g requirements in the following category: (d) – Laboratory Science.

Course Prerequisite: Grade 12; It is recommended that students earn a grade of B or better in Biology and/or Chemistry and obtain teacher recommendation. Students must also complete a summer assignment.

ANATOMY/PHYSIOLOGY (6170 Year)

ANATOMY/PHYSIOLOGY HONORS (6171 Year)

This is an advanced course designed to study the structure and function of the human body. Students will gain an in depth knowledge of cells, tissues, organs, organ system design and the diseases associated with each. Students will use current research to analyze articles and explore careers that involve the human body. Dissection specimens are used to model anatomical structures. Students perform thorough examination of the eleven systems of the body including the integument, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, respiratory, digestive, excretory, and reproductive system and the diseases associated with each one. Key anatomical and physiological concepts are emphasized during organ system analysis. In addition, lab activity summaries and research projects are also required.

This course meets the UC/CSU a-g requirements in the following category: (d) – Laboratory Science.

Honors Prerequisite: Biology with a B or better and Chemistry with a C or better and recommendation of previous science teacher. Concurrent enrollment in Physics is acceptable.

FORENSIC SCIENCE (6280 Year)

This course is designed to follow the history of forensic science from the simplest crime solving techniques to today's DNA technology. The class will require students to act as investigators, engaging in many of the processes necessary for a Science-as-Inquiry approach. At various points, students must gather data, think critically and logically about relationships between evidence and explanations, construct and analyze alternative explanations, and communicate scientific arguments. This course does not satisfy college lab-science requirements but meets graduation requirements as an additional year of science or for elective credit.

This course meets the UC/CSU a-g requirements in the following category: (d) – Laboratory Science.

CRIMINALISTICS (6281 Year)

This course builds upon academic themes in Physics, Chemistry, and Biology. Students will be exposed to lecture, demonstrations, problem-solving, experiments, and research in order to develop a better understanding of Forensic Science - the application of hard science and technology to the solution and prosecution of crime. The course is designed to follow the history of Forensic Science from the simplest crime solving techniques to today's DNA technology.

Course Prerequisite: Grade 11 and 12

This course meets the UC/CSU a-g requirements in the following category: (d) – Laboratory Science.

OCEANOGRAPHY (6370 Semester)

This course includes an introduction to ecology (living things and their environment, food and energy in the environment, and cycles in nature), an exploration of human impact on the environment, and a community service project in an area of environmental concern. Half the semester will emphasize life forms found in the ocean and their relationship to their physical environment. This course may be used for either life or physical science credit.

Course Prerequisite: Grades 11 and 12

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

ENVIRONMENTAL SCIENCE (6380 Semester)**

The course combines general life science and general physical science, with emphasis on the environment. Students will observe nature in an attempt to better understand the relationships and interactions between organisms and the environment. Emphasis will be placed on current topics pertaining to the environment such as energy use, pollution, and human impact. Environmental science provides useful information that will allow students to make educated decisions for our community, country, and the planet. This course does not satisfy college lab-science requirements but meets graduation requirements as an additional year of science or for elective credit.

Prerequisite: Grade 11 or 12

****This course DOES NOT meet the UC/CSU a-g requirements. Can only be used for graduation requirements.*

E) WORLD LANGUAGES

SPANISH

SPANISH I (9000 Year)

The purpose of this class is to give students the ability to function in real-life situations that they might encounter in a Spanish-speaking environment. Students will learn to talk about themselves, their families, and their friends; they will learn how to get around in towns, use public transportation, and give directions; they will learn how to make purchases in stores; and they will learn to use the appropriate language in a variety of social interactions. Students will be exposed to the various cultures of Spanish-speaking people, including geography, history, traditions, and daily life. Students will acquire a basic living vocabulary. This course is not intended for students whose first language is Spanish.

This course meets the UC/CSU a-g requirements in the following category: (e) – Foreign Language.

Course Prerequisite: C or better in English

SPANISH FOR SPANISH SPEAKERS I (9045 Year)

This course is for students whose first language is Spanish or for those bilingual students whose dominant language is Spanish. This course is taught entirely in Spanish dealing with grammar, reading and writing as its main focus. Students will read work by Hispanic authors, analyze the reading by critical analysis and write essays based upon the reading or discussion.

This course meets the UC/CSU a-g requirements in the following category: (e) – Foreign Language.

Course Prerequisite: Teacher or counselor approval

SPANISH II (9010 Year)

Students will further develop their abilities to function in situations they might encounter in a Spanish-speaking environment. Students will learn to appreciate Latino customs and history. Students will be expected to participate in class activities using Spanish. This course is not intended for students whose first language is Spanish.

This course meets the UC/CSU a-g requirements in the following category: (e) – Foreign Language.

SPANISH FOR SPANISH SPEAKERS II (9050 Year)

This course is a continuation of the content covered in Spanish for Spanish Speakers I. Students will review grammar from the previous year. Students will continue with grammar dealing with all tenses, read short essays of Spanish authors, analyze the reading by critical analysis and write essays based upon the reading or discussion.

This course meets the UC/CSU a-g requirements in the following category: (e) – Foreign Language.

Course Prerequisite: Satisfactory completion of Spanish for Spanish Speakers I.

SPANISH III (9020 Year)

Students will further develop their abilities to function in situations they might encounter in a Spanish-speaking environment. Students will learn to speak of the past and future and express desires, emotions, and beliefs. They will learn to order food and to express their tastes in food; they will learn to travel on public transportation in Spanish speaking countries. They will expand their knowledge and vocabulary of fashion and clothing. Students will study art and art history of the Spanish-speaking world. Students' cultural knowledge will expand as they learn customs, art and points of interest in the Spanish-speaking world. Students will be expected to participate in class using the Spanish language.

This course meets the UC/CSU a-g requirements in the following category: (e) – Foreign Language.

SPANISH IV (9029 Year)

The primary goals for this course are the refinement of communicative skills in the four skill areas of listening, speaking, reading, and writing; the enhancement of strategic competence (communicative strategies); the enhancement of grammatical competence (review of previously learned structures and acquisition of new structures and uses); and the refinement in understanding Spanish and Hispanic cultures. Students are expected to participate in using Spanish language 100% of the time.

This course meets the UC/CSU a-g requirements in the following category: (e) – Foreign Language.

ADVANCED PLACEMENT (AP) SPANISH IV - LANGUAGE (9030 Year)

The purpose of this course is to give students a continuing opportunity to refine their speaking, listening, and writing skills. Students will use Spanish in real-life situations. Students will participate in all activities using the Spanish language. Students will be expected to take the A.P. examination.

This course meets the UC/CSU a-g requirements in the following category: (e) – Foreign Language.

Course Prerequisite: Satisfactory completion of Spanish III or Spanish for Spanish Speakers II and/or teacher recommendation

FRENCH

FRENCH I (9100 Year)

The purpose of this class is to give students the ability to function in real-life situations that they might encounter in a French-speaking environment. Students will learn to talk about themselves, their families, and their friends; they will learn how to get around in towns, use public transportation in Paris, and give directions; they will learn how to make purchases in stores; they will be able to talk about the city of Paris and its attractions; and they will learn to use the appropriate language in a variety of social interactions.

This course meets the UC/CSU a-g requirements in the following category: (e) – Foreign Language.

Course Prerequisite: C or better in English

FRENCH II (9110 Year)

Students will further develop their abilities to function in situations they might encounter in a French-speaking environment. Students will learn to describe people and things, how to talk about their residence and be able to get lodging (hotel), interact with others about their leisure-time and vacation activities, and talk about health concerns. The students' cultural knowledge will expand to include all of France and its varied customs, traditions, landscapes, and points of interest.

This course meets the UC/CSU a-g requirements in the following category: (e) – Foreign Language.

FRENCH III (9120 Year)

The purpose of French III is to further develop the students' abilities to function in situations they might encounter in a French-speaking environment. Students will learn to discuss jobs and the workplace; they will learn to talk about and to purchase clothing; they will learn to make travel plans using trains, planes, and cars; they will learn more about French food and how to act appropriately both in a restaurant and at a family dining table. Students' cultural knowledge will expand to include the Francophone world with its varied customs and points of interest as well as some aspects of France's cultural past.

This course meets the UC/CSU a-g requirements in the following category: (e) – Foreign Language.

ADVANCED PLACEMENT (AP) FRENCH IV –LANGUAGE (9130 Year)

The primary goals of French IV are: (1) the refinement of communicative skills in the four skill areas (listening, speaking, reading, writing); (2) the enhancement of strategic competence (communicative strategies); (3) the enhancement of grammatical competence (review of previously learned structures and acquisition of new structures and uses); (4) the refinement in understanding of French and Francophone culture. French IV builds on themes, structures, vocabulary, and skills learned in French I-III; however, the course aims at moving the student to a more abstract level of language usage at which they learn to work with more extended discourse and cultural and sociological (as well as the practical) aspects of the topics studied. A major emphasis in French IV is the preparation of the students to take the A.P. examination.

This course meets the UC/CSU a-g requirements in the following category: (e) – Foreign Language.

Course Prerequisite: A grade of A or B in French III and/or teacher approval recommended

F) VISUAL AND PERFORMING ARTS

VISUAL ARTS

DRAWING AND PAINTING A (1120 Year)

This course introduces students to the elements of art and the principles of design with a focus on drawing and painting. Students learn the language of art critiquing in order to evaluate their own artwork and the works of others. Students learn basic rendering techniques to create depth in all medium/material, and also learn to develop hand-eye coordination. Students use references from photos of celebrities, animals, or themselves to create artwork that focuses on composition and proportion through the use of line, texture, and value. This course takes students from the basics of drawing and painting through finished work, utilizing a variety of media including pencil, pen, ink, charcoal, oil pastel, colored pencil, watercolor, and tempera paint. This class introduces students to the various careers in the arts and focuses on the technical development of an artist. This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

DRAWING AND PAINTING B (1123 Year)

This intermediate course focuses on drawing principles emphasizing composition, innovation, and technical application of diverse drawing materials and techniques, that build off the basic ideology learned the previous year. Students will revisit media used before such as charcoal, graphite, scratchboard, oil pastel, colored pencils, watercolor, and pen/ink. Additionally, they will be introduced to new media such as acrylic painting, neutral prisma colored pencil, various grades of pencils, crowquill pens, spray paint, and numerous other mixed medial techniques, that will show students how these various media can complement each other. Since student artwork becomes more creative and personal by the second year of art, students are responsible for all visual resources that will aid them on their projects. Subject matter will go from representational to abstract and techniques will move from polished and tight to minimal and loose. Students enrolling in this class must be self-disciplined and passionate about art. Students' grades are based on visual resources, concepts/projects, preliminary work, in-class drawings, and critiques. This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

Prerequisite: Drawing and Painting A

CERAMICS A (1110 Year)

Ceramics A is a beginning course introducing basic hand-building techniques, decoration methods, molds, and casting. Sculpting techniques are introduced through the creation of a realistic human head. The course covers general art concepts, vocabulary, historical implications and aesthetics. It reinforces skills and knowledge through application, exploration, and practice in a sequenced program of projects and class work. Commercial molds are used as a basis for modification and decoration of castings. Two-piece molds are designed and created. Wheel-throwing and expressive sculpting are culminating activities. This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

CERAMICS B (1113 Year)

Ceramics B is the level at which students interested in continuing Ceramics begin to specialize. After a basic technical review, they select areas they wish to explore. Students write project proposals and experiment with new materials. The focus in Ceramics B is the development of new glazes and surface decoration from raw materials and applying them to a series of projects. Ceramics B students take the same tests and classwork as Ceramics A without additional instruction; working from their notes. This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

Prerequisites: Satisfactory completion of Ceramics A or teacher permission.

PHOTOGRAPHY 1 (1413 Year)

In the Photography 1 course the students will be introduced to film and digital photography. They learn how to apply design principles to digital photography by using photo-editing and other software applications to create, enhance, and manipulate photos they have taken, and keep an electronic portfolio of their work. Through the completion of specific projects, the student safely learns to control the photographic process from camera to printing, which will allow them to expertly express their creative and technical abilities. This course is counted towards the practical arts graduation requirement. This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

PHOTOGRAPHY 2 (1415 Year)

Photography 2 is a continuation to the art of black and white photographic printing, with an introduction to experimental image making. You will apply camera techniques and design theories learned in previous photo classes to develop your individual body of work. With an emphasis on studio production, this course is designed to develop higher level thinking, art-related technology skill, art criticism, art history, and aesthetics. This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

PERFORMING ARTS

DRAMA (1940 Year)

This course is the beginning level for high school students with no previous theatre experience. It is an in-depth study of theatre arts in which students will learn about the different areas of theatre, with emphasis on acting technique. Students will develop performance skills in speaking, oral interpretation, memorization, characterization, pantomime, and audience awareness through performance of individual and small group exercises leading to performance of multiple character scenes. The development of theatre through history and technical theatre will also be examined. This course is also for those students who need time to further develop skills acquired in previous theatre courses.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

DRAMA WORKSHOP (1950 Year)

Students will maintain and extend the skills, knowledge, and appreciation developed in previous theatre courses. Students will work on classical theatre as well as contemporary theatre. They may attend conferences, festivals and competitions. This may involve work during some nights, weekends and holidays. Participation at selected play festivals may be required. This course may be repeated for credit.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

FILM STUDIES (5952 Year)

This course is a study of film as both an art and a means of communication. The course will focus on film history, criticism, and film analysis. Students will learn to read a film, analyzing its narrative structure, genre conventions, subtext, technical and artistic elements, and purpose.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

Open to grades 10-12.

THEATRE PRODUCTIONS (1932 Quarter)

After auditioning and being cast, students will develop characters through memorization and rehearsal, finally performing roles in a major production. Students will also complete technical theatre assignments given related to the individual production. This class is for actors, technicians, and musicians. Grades and credits will be based on participation. This course is offered during 7th period.

Course Prerequisite: Audition only

MUSICAL THEATRE PRODUCTION (1933 Quarter)

After auditioning and being cast, students will rehearse and perform a major musical theatre production. This class is for actors, technicians, and musicians. Grades and credits will be based on participation. This course is offered during 7th period.

Course Prerequisite: Audition only

SHAKESPEAREAN THEATRE (1935 Quarter)

This class will cast, rehearse, build and produce a Shakespeare play for school and community performance. Students will research and study the language and theatrical conventions of Shakespeare. This course is offered during 7th period

Course Prerequisite: Audition only

WOMEN'S CHORUS (1531 Year)

This course provides all female students the opportunity of participating in the school's choir program. Students will develop their vocal skill and gain confidence by singing in a group. Students will learn to sing in harmony, and sing a variety of music, incorporating classical, folk, do-wop and contemporary styles. Personal enjoyment of music is stressed. Music reading is included in the curriculum, and students will learn basic musicianship through ear training and notational skills. No prior experience is necessary. Performances are a part of this course.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

MEN'S CHORUS (1532 Year)

This course provides all male students the opportunity of participating in the school's choir program. Basic skills of singing are stressed, as well as personal enjoyment of music. Vocal music instruction will introduce music theory while students gain confidence and skill in singing with a group. Students will learn to sing in harmony, and sing a variety of music, incorporating classical, folk, do-wop and contemporary styles. Music reading is included in the curriculum. Public performances are a part of this course.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

CHOIR (1535 Year)

This class is for outstanding vocal music students. Students will sing four-part music and solos. They will develop choral/vocal techniques as well as music reading skills. They will sing music from a variety of cultures and time periods. Students will have the opportunity to perform in a variety of venues and to hear other groups perform. Choir members will also work individually to prepare solos and small group projects. This course may be repeated for credit with teacher permission.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

Course Prerequisite: Previous choral experience and audition

ANGELS (1530 Year)

This class is for female vocal music students. Advanced vocal techniques are stressed, and students will sing in three- and four-part harmony. The group will perform throughout the community and in a wide variety of venues including concerts, festivals and competitions. The course stresses personal enjoyment of music as well as performance skills. Angels will provide opportunities for learning advanced reading techniques, advanced music theory concepts, and music from a variety of time periods, cultures, and choral styles. Students will also work individually to prepare solos and small group projects. Students will be financially responsible for their performance outfits.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts. Course Prerequisite: Audition

ENSEMBLE (1545 Year)

This is a year-long course designed for advanced choral students. Students will learn advanced music theory concepts and sing music from a variety of time periods and cultures. Singers will also work individually to prepare solos and small group projects. The Ensemble will perform throughout the community and in a wide variety of venues including concerts, festivals and competitions. In addition, the group takes a tour each year. This course stresses personal understanding and enjoyment of music as well as performance skills.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts. Course Prerequisite: One-year choral experience and audition

GUITAR 1 (1520 Year)

This year-long course is designed to provide students with beginning through intermediate guitar instruction while completing their a-g requirement in fine arts. Throughout the semester students will learn musicianship, music reading skills, and guitar technique as well as performance practices. The class will perform throughout the year on and off campus. Students will feel confident playing guitar for their family and friends after this yearlong course.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

GUITAR 2 (1518 Year)

Guitar 2 is a one year course within the performing arts program that is open to all students who have either passed the first year of Guitar 1 with a C or higher or have auditioned with the instructor. Students in the class will learn about practical, historical, theoretical, and applicable aspects of intermediate guitar playing. The physical aspects of intermediate guitar playing will incorporate a larger range of the instrument as well as more complex chords and harmony as it applies to solo and ensemble guitar playing.

This course will be submitted for UC/CSU approval.

BANNER AND FLAG (1522 Year)**DRILL TEAM (8257 Year)**

Banner and Flag/Drill Team develops dance, flag, and rifle skills needed to compliment the marching band, and the Winterguard performs at indoor competitions 2nd semester. Students will gain knowledge of the fundamentals of dance, flag, rifle and saber while studying historical/social implications and performance practices of their genre. Students will enhance their cardiovascular fitness and endurance, including the use of marching and dynamic, rhythmic dance. Students will perform at a level that reflects understanding of the mechanical aspects of their movement as well as artistic interpretation. Many public performances are required, and are not an optional part of this course. Drill Team is a 7th period course.

Banner/Flag course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts. Course Prerequisite: Students must attend workshops, then audition.

Course Co-requisite: Banner/Flag students must also be enrolled in Drill Team.

BEGINNING STRINGS/ORCHESTRA (1513 Year)

Students learn how to play one of the following string instruments: violin, viola, cello or bass. Beginning techniques for each instrument are taught along with an introduction to music through its language, notation and historical background. Students perform concerts on campus and in the community. Some instruments can be loaned out upon teacher approval. No audition necessary.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

ADVANCED STRINGS/ORCHESTRA (1514 Year)

Intermediate and advanced musicians will perform in various settings including orchestra competitions, community events, and school functions. Students will enhance knowledge of music foundations including music theory, and historical/social implications and performance practices of various genres. Students will perform at a level that reflects understanding of the mechanical aspects of their instruments. Many public performances are required, and are not an optional part of this course.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

Course Prerequisite: Completion of Beginning Strings or teacher recommendation

JAZZ BAND (1515 Year)

This advanced ensemble explores improvisation and various styles of Jazz and Latin music. Students will perform in various settings including jazz festivals, concerts, community events, and school functions. Students will enhance knowledge of music fundamentals and study historical/social implications. Students will learn to demonstrate basic improvisation. Students will perform at a level that reflects understanding of the mechanical aspects of their instruments as well as artistic interpretation. Many public performances are required, and are not an optional part of this course. One to two years of concert band is recommended as a prerequisite.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

Course Prerequisite: Students must audition or receive teacher recommendation

MARCHING BAND (1521 Semester)

(Students must enroll in 1508) Intermediate and advanced musicians will perform in various settings including competitions, community events, and school functions. Students will perform at a level that reflects understanding of the mechanical aspects of their instruments, and the understanding needed to perform while in motion. Marching Band develops the ideas and concepts learned in Concert Band, and integrates them with body movement and drill formations. Many public performances are required, and are not an optional part of this course. This course is offered first semester during 7th period and earns elective credit.

Course Prerequisite: Teacher recommendation

CONCERT BAND (1508 Year)

(Students must enroll in 1521) Intermediate and Advanced musicians will perform in various settings including concert festivals, community events, and school functions. Students will enhance knowledge of music fundamentals including music theory, and historical/social implications and performances practices of various genres. Students will perform at a level that reflects understanding of the mechanical aspects of their instruments. Many public performances are required, and are not an optional part of this course.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

Course Prerequisite: Teacher recommendation

PERCUSSION ENSEMBLE (1549 Semester)

Percussion Ensemble helps students develop their musical skills, further developing repertoire for indoor productions 2nd semester, combining theatrical skills with percussion. Students will enhance knowledge of music fundamentals and study historical/social implications. Students will enhance their cardiovascular fitness and endurance, including the use of marching and dynamic, rhythmic dance. Students will perform at a level that reflects understanding of the mechanical aspects of their instruments as well as artistic interpretation. Many public performances are required, and are not an optional part of this course. This course is offered during 7th period 2nd semester

Course Prerequisite: Students must audition or receive teacher recommendation.

Course Co-requisite: Percussionists must also be enrolled in Concert Band (Course # 1508) or Jazz Band (Course # 1515).

ADVANCED PLACEMENT (AP) MUSIC THEORY (1550 Year)

This course explores how music is written and created. Students will study chord structure, harmonic progressions and musical form. Students will also compose and analyze music. Students enrolled in this class will take the Advanced Placement Examination in Music Theory.

Recommended: Students who pass the AP Music Theory class may receive college credit. Therefore, this course models college level work in both content and pacing. It is recommended for students who are proficient on the CST in English/Language Arts.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

Course Prerequisite: Teacher recommendation

G) COLLEGE PREP-ELECTIVE

CAREER TECHNICAL EDUCATION (CTE)

TRANSPORTATION SECTOR

ASE Automotive Technology 1 (5904 Year)

This course will introduce students to the automotive industry. Students will problem solve automotive safety, maintenance; and electrical, cooling, and fuel systems. Students will learn technical skills such as tire installation, battery replacement, brake repair, cooling and fuel system repair, suspension, alignment and HVAC. The course will prepare students for ASE Automotive Technology 2 where students will explore alternative energy/fuels electric vehicles.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

ASE Automotive Technology 2- Electric “Switch Vehicle” (5906 Year)

This is an advanced course for students. Students will continue to refine their vehicle maintenance and light repair technical skills. This course introduces students to alternative energy/fuel vehicles. Students will build a “Switch Electric Vehicle.” The course will prepare students for ASE maintenance and light repair certification.

Prerequisite: Satisfactory completion of ASE Automotive Technology 1.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

BUILDING AND CONSTRUCTION TRADES SECTOR

CONSTRUCTION TECHNOLOGY A (5740 Semester)***

CONSTRUCTION TECHNOLOGY B (5750 Semester)***

***This course DOES NOT meet the UC/CSU a-g requirements. Can only be used for graduation requirements.

INTRODUCTION TO WOODWORKING (5732 Year)

This course prepares students to safely design, lay out and shape stock; assemble wooden articles or subassemblies; mark, bind, saw, carve, and sand wooden products; repair wooden articles; and use a variety of hand and power tools.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

CABINETMAKING (5733 Year)

This course introduces students to all phases of cabinet construction, design and production and covers the construction of both custom and small-scale production/manufacturing.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

Prerequisite: Satisfactory completion of Introduction to Woodworking

MANUFACTURING AND PRODUCT DEVELOPMENT SECTOR

GRAPHIC PRODUCTION TECHNOLOGY (2267 Year)

This course provides students with an understanding of printing and manufacturing processes and systems common to careers in the graphic production and printing technology industries. Representative topics include the principles of design composition, graphic design and layout, typography, image generation and file preparation, photography, digital imaging, prepress preparation, printing and screen-printing technologies, binding and finishing processes, multimedia blending, and business and entrepreneurship principles.

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

ADVANCED GRAPHIC PRODUCTION TECHNOLOGY (2240 Year)

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

This course meets the UC/CSU a-g requirements in the following category: (f) - Visual and Performing Arts.

Prerequisite: Satisfactory completion of Graphic Production Technology

ARTS, MEDIA AND ENTERTAINMENT SECTOR

FILM/VIDEO 1 (5948 Year)

This course is designed to introduce students to concepts and principles used in film and video production. This course exposes students to the basics of visual storytelling through the creation of storyboards, script writing, basic shot types, camera movements, lighting, audio, and techniques of editing. Students will learn the skills necessary for jobs within the industry such as producer, director, art director, set design, camera operator, script supervisor, editor, etc.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

FILM/VIDEO 2 (5949 Year)

This course is designed to introduce students to concepts and principles used to pursue a career pathway in film and video production. This course exposes students to the basics of visual storytelling through the creation of storyboards, script writing, basic shot types, camera movements, lighting, audio, and techniques of editing. Students will learn the skills necessary for jobs within the industry such as: producer, director, art director, set design, camera operator, script supervisor, editor, etc.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

Prerequisite: Film/Video 1

STAGE PRODUCTION TECHNOLOGY (5958 Year)

This intermediate course provides students knowledge in lighting, audio, backline, stage plots and design, stage management, production management and box office/publicity/marketing. Students will learn how to design and stage a music or theater event on campus.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

ADVANCED STAGE PRODUCTION TECHNOLOGY (5959 Year)

This advanced course provides students in depth knowledge on lighting, audio, backline, stage plots and design, stage management, production management and box office/publicity/marketing. Students will apply their expertise to design and stage a music or theater event on campus.

Prerequisite: Satisfactory completion of Stage Production Technology

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

ENGINEERING, ARCHITECTURE AND DESIGN SECTOR

INTRODUCTION TO ENGINEERING DESIGN (5602 Year)

An introduction to electronics will be given with an emphasis on electronic assembly techniques. Students will construct a small audio amplifier, computer bug and burglar alarms. Students will learn how to make printed circuit boards, solder, measure continuity, and do simple testing and trouble-shooting procedures using a multimeter. An introduction to electricity, magnetism, component identification, component testing, and electromagnetism will be given. Female students are encouraged to enroll in this course.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

PRINCIPLES OF ENGINEERING (5603 Year)

Principles Of Engineering (POE) is a high school-level survey course of engineering. The course exposes students to some of the major concepts that they will encounter in a post secondary engineering course of study. Students have an opportunity to investigate engineering and high tech careers. POE gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem- based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills based upon engineering concepts. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

HOSPITALITY, TOURISM AND RECREATION

CULINARY ARTS 1 (5121 Year)

Students will learn the principles of basic nutrition for use in the selection and preparation of food. As consumers, they will learn to buy food wisely. Included is food selection for weight control and health.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

CULINARY ARTS 2 (5122 Year)

This course prepares students with food production, preparation, and service skills for employment institutional, commercial, or independently owned food establishments or other food and hospitality industry occupations. Instruction includes topics such as planning, selecting, storing, purchasing, preparing, testing, serving and selling of quality food and food products; nutritive values; safety and sanitation; use and care of commercial equipment; management of food establishments; cost and profitability analysis; side work and customer orders; and handling cash and credit transactions.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

Prerequisite: Satisfactory completion of Culinary Arts 1

HEALTH SCIENCE AND MEDICAL TECHNOLOGY

INTRODUCTION TO HEALTH CAREERS (2792 Year)

Introduction to Health Careers is designed to expose students to 17 different healthcare career fields. Students will complete modules in biomedical engineering, biotechnology research and development, clinical lab practices, dentistry, emergency medical technician, environmental medical technician, forensics, health information management, medical imaging, mental health services, nursing, ophthalmology, pharmacology, speech therapy, sports medicine, therapeutic services, and veterinary medicine. The goal of this course is to expose students to the diverse career opportunities available in the health care field, and increase and reinforce related academic skills.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective

MEDICAL ASSISTANT (2883 Year)

The Medical Assistant (MA) high school program consists of 180 hours of guided curriculum, both tangible and online, that prepares and qualifies students to sit for the Certified Clinical Medical Assistant (CCMA) exam. The program is designed to equip students with the skills necessary to assist patients in hospitals, medical clinics, assisted living environments and physician offices. Medical Assistants provide direct patient care as well as assist the physician with filing, recording, patient scheduling for appointments and specialized testing.

Prerequisites: Introduction to Health Careers with a B or better, IM1 with a C or better (or comparable for transfer students), Health Occupations and Anatomy/Physiology with a B or better is highly suggested. Students who meet all aforementioned prerequisites get priority registration.

Certifications available through this course include Certified Clinical Medical Assistant (CCMA)

Possible Careers for Medical Assistants include, but are not limited to: Hospitals, Rehabilitative Centers, Home Health Agencies, Hospice Care, Physician offices, and Medical Clinics, and Long-Term Care facilities.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

COUNSELING AND MENTAL HEALTH SERVICES (2775 Year)

This course includes the foundational content for students interested in a career in the mental and behavioral healthcare field. Students will become familiar with possible careers, fields, and neuroscience of mental & behavioral health, including disorders and diagnosis. Students will also learn the four stages of mental health recovery, the history of mental and behavioral health, and the meaning and importance of cultural competence in mental and behavioral health. This course will also cover the importance of community mental & behavioral health services, personal self-care, and leadership skills for mental and behavioral health professionals. Finally, students will learn about the integration of modern technology in mental and behavioral health care.

Prerequisite: Satisfactory completion of Introduction to Health Careers or Health Pathway teacher approval.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

SPORTS THERAPY/ATHLETIC TRAINER (5076 Year)

This capstone course is designed to educate students in the rapidly growing field of Sports Medicine. The course will place a special emphasis on the anatomy and physiology of the human body related to athletics. Students will learn client care skills such as how to monitor vital signs, blood pressure, body temperature, basic first aid, CPR, fitness, rescue practices, and injury identification. Students from the class may also participate in an after-school Student Athletic Training Program that will allow them hands-on-field experience at the local high school athletic programs.

Open to students in grades 10-12 only.

PHYSICAL EDUCATION

PHYSICAL EDUCATION 9 (8110-Fall/8115-Spring)

Physical Education for grade nine will teach students health-related benefits of regular physical activity and the skills to adopt a physically active, healthful lifestyle. Students will be asked to demonstrate their knowledge of and competency in motor skills, movement patterns, and strategies needed to perform a variety of physical activities. Students will be asked to achieve a level of physical fitness for health and performance while demonstrating knowledge of fitness concepts, principles, and strategies. All ninth grade students will be required to take the FITNESSGRAM, a state mandated physical fitness test.

PHYSICAL EDUCATION 10 (8140-Fall/8145-Spring)

Physical Education for grade ten will allow students to become confident, independent, self-controlled, and resilient. Students will develop positive social skills, set and strive for personal, achievable goals. Students will also learn to assume leadership, cooperate with others, accept responsibility for their own behavior, and ultimately, improve their academic performance. Students will add to the standards learned and achieved in grade nine and will be asked to demonstrate knowledge of psychological and sociological concepts, principles, and strategies that apply to the learning and performance of physical activity. Students may be placed in classes that have both 9th and 10th graders depending on availability.

WEIGHT TRAINING (8535/8536 Semester)

This course is offered to provide students with the opportunity to explore weight training as an intensive experience in an activity that they wish to participate in for years to come. Students will be asked to explain the principles of biomechanics of first-, second-, and third-class levers and apply those principles to a variety of lifting techniques. Demonstrate proper spotting techniques for all lifts and exercises that require spotting. Identify and apply the principles of biomechanics necessary for the safe and successful performance of weight training. Establish a set of personal physical fitness goals, using the principles of training, and create a strength-training and conditioning program.

Course Prerequisite: Students must pass P.E. in both grades 9 and 10.

ATHLETICS /TEAM SPORTS (Semester)

The goal of the athletic program is to provide training in sports as an integral part of the educational offerings for secondary students. Each area of athletics is organized to provide students with experiences which fulfill physical and mental training, provide for leadership opportunities, develop cooperation, sportsmanship and fair play, and teach the skills related to each sport.

Course Prerequisite: Academic eligibility, coach approval, and athletic director approval.

ENGLISH LANGUAGE DEVELOPMENT (ELD)

ELD NEWCOMER (3137 Year)

ELD Newcomer is an introductory English class that is designed for the recent arrival of an English learner. This course aligns the California Standards for Language Arts and the English Language Development standards to meet the needs of preproduction and beginning level English learners in mastering the English-Language Arts content standards. This course is carefully designed for English learners to accelerate both their growth in language and literacy. Emphasis will be placed on vocabulary development, reading fluency, and writing conventions.

Students will receive English credit for this course.

ELD 9 (3182 Year)

This ELD class is carefully designed for English learners in grade 9 to accelerate their growth in both language and literacy. This course aligns the California standards for English-Language Arts and the English Language Development standards to meet the developmental needs of the intermediate English learners. Emphasis is placed on reading comprehension and fluency. Students are also concurrently enrolled in their grade level English class.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

ELD 10 (3183 Year)

This ELD class is carefully designed for English learners in grade 10 to accelerate their growth in both language and literacy. This course aligns the California standards for English-Language Arts and the English Language Development standards to meet the developmental needs of the intermediate English learners. Emphasis is placed on reading comprehension and fluency. Students are also concurrently enrolled in their grade level English class.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

ELD 11 (3184 Year)

This ELD class is carefully designed for English learners in grade 11 to accelerate their growth in both language and literacy. This course aligns the California standards for English-Language Arts and the English Language Development standards to meet the developmental needs of the intermediate English learners. Emphasis is placed on reading comprehension and fluency. Students are also concurrently enrolled in their grade level English class.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

ELD 12 (3185 Year)

This ELD class is carefully designed for English learners in grade 12 to accelerate their growth in both language and literacy. This course aligns the California standards for English-Language Arts and the English Language Development standards to meet the developmental needs of the intermediate English learners. Emphasis is placed on reading comprehension and fluency. Students are also concurrently enrolled in their grade level English class.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

INTENSIVE ELD 9-12 (3187 Year)

The Intensive ELD class is carefully designed for English learners to accelerate their growth in both language and literacy; this course is meant for those students who need intensive ELD support and are two or more years behind grade level. This course aligns the California standards for English-Language Arts and the English Language Development standards to meet the developmental needs of the intermediate English learners. Emphasis is placed on reading comprehension and fluency. Students are also concurrently enrolled in their grade level English class.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

NON-DEPARTMENTAL

HEALTH (6875 Semester)

This required course is a contemporary field of study on today's health issues. The issues covered in this semester course are proper nutrition, physical fitness, communicable and non-communicable diseases, abuse, human sexuality, personal safety, life-saving techniques, mental health concepts and some human anatomy.

YEARBOOK (3830 Year)

Students selected for this class are involved in the design, layout, and production of the school's yearbook, writing of stories and captions, photography, candid and group events, design and layout of section pages and the overall editorial theme of each year's book. Course may be repeated for credit with permission.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

Course Prerequisite: Grades 9-12; Advisor's approval needed, GPA of 2.5 or above; high student motivation; positive attitude

PSYCHOLOGY (4600 Semester)

This course will provide a study of personality, thinking, learning, heredity and environment, emotion, mental illness, perception, child development, and other aspects of behavior of human beings.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

Course Prerequisite: Grades 11-12

OFFICE AIDE (1809 Semester)

Students that desire to be an office aide must have good grades, attendance, and no disciplinary entries on their student screen. Students in these positions are asked to assist in the day-to-day operations of the offices on our campus. This includes answering phones in a polite and professional manner, taking passes out to classes without disturbing classes, and assisting in the numerous other tasks that an office manager is asked to do. A maximum of fifteen credits may be counted towards graduation.

Course Prerequisite: Counselor approval, Grades 11-12

LIBRARY AIDE (1802 Semester)

Students will provide assistance to library users with the library catalog and library equipment. This class is ideal for students who enjoy helping others. This is a work experience class, which allows students to practice work force employment skills. Responsibility, dependability, initiative, and attention to detail are stressed in this course, as well as communication and organization skills. Students are trained to file books correctly in the Dewey System and to read shelves. They assist other students in finding both casual reading books and research materials. Students assist peers in using online and other computer resources. Students assist library clerks with other tasks including textbook processing, stocking, deliveries, book mending, cleaning and other related tasks. A maximum of fifteen credits may be counted towards graduation. Course Prerequisite: Counselor approval; Grades 11-12

DRIVER EDUCATION (6840(Fall)/6841(Spring) Semester)

Driver Education is the state required course that needs to be completed before a student can take the written test for the driver's permit issued at 15 ½ years of age. This course will cover rules of the road, safety and right-of-way regulations as they pertain to the state's Department of Motor Vehicles materials.

ASB/LEADERSHIP (4825 Year)

This course is mandatory for all student body officers and ASB appointed positions. These students serve as the student government for Bellflower High School and should be role models for their peers. Their role as leadership students should embody school spirit and BUC Pride. The course will introduce students to the elements of sound organizational and administrative skills and the preparation to implement them with integrity and forthrightness. This course is open to a limited number of students.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

Course Prerequisite: Students need a 2.0 G.P.A.; good attendance and have no discipline issues.

PEP SQUAD (8254 Year)

Students develop skills in yell leading, song, mascots, and precision drill team. They will develop routines for games, rallies, assemblies, half-time shows, and competitions. The group also develops routines for the next year's tryouts.

Prerequisite: Tryout the previous spring and physical exam on file. Students considering this course should be aware of the requirement of a commitment of time – mornings, evenings, and some weekends.

LINK CREW (6801 Year)

Link Crew Leadership strives to increase students sense of community, academic commitment, and positive social school climate. Link Crew helps 7th graders successfully transition into middle school. The Link Crew Leadership Class provides time to design and implement connections for current seventh through both academic and social follow-ups and to learn valuable leadership skills through a variety of classroom activities. Students learn skills including written, interpersonal, and intrapersonal communication, team-building, agenda setting, presentation/facilitation, time management, health and balance, and the closure method. Through the curriculum, students are trained to act as team leaders, motivators, role models, and peer facilitators who provide support to their seventh grade "crew" throughout the year.

This course meets the UC/CSU a-g requirements in the following category: (g) – College Preparatory Elective.

CALIFORNIA ADVANCING PATHWAYS FOR STUDENTS (CalAPS)

CAREERS IN EDUCATION - Course 1

This entry-level course is designed to provide students with knowledge of career opportunities in the field of teaching and other school site educational professions. Basic academic, safety, communication, interpersonal and problem-solving skills are integrated throughout the course. Students will learn about children and adolescents in the areas of physical, intellectual, emotional and social growth and development. Students will learn instructional strategies and how to apply them in the classroom to meet the needs of all students. Students will identify ways to create an environment that stimulates learning and encourages student achievement. Classroom management techniques will be explained, discussed and practiced. Lesson plan organization and assessments are also taught in this course.

Open to students in grades 9-12

CAREERS IN EDUCATION – Course 2

This class is the second of two courses within the Education, Child Development, and Family Services Sector. The capstone course will provide continuing opportunities for students interested in careers in this sector to formally study education and participate in community classroom practice, experiences in partnering schools as students work with mentor educators/after-school programs. Students will compete in education competition opportunities during the year. (SkillsUSA). Additional assignments in Google Classroom.

Prerequisite: Careers in Education Course 1

EARLY CHILDHOOD SPECIALIST/CHILD CARE WORKER

This entry-level class prepares students for working with young children in preschool and home settings. In this class students learn the developmental stages of children. In the preschool lab setting, students will apply teaching methods to help children love to learn in a happy, structured environment. Students will complete on the job hours within a pre-school/childcare placement. Students will compete in education competition opportunities during the year. (SkillsUSA). Additional assignments in Google Classroom.

Open to students in grades 9-12

ENTREPRENEURSHIP AND INNOVATION - Course 1

This entry-level course trains students to recognize business opportunities and to develop business management skills for starting, operating, and maintaining their own business. It also provides a foundation in business concepts for individuals planning to work in the increasingly competitive corporate world. Students will learn the areas of business planning, accounting, finance, marketing, management, business ethics, and social responsibility. Training includes required hours for participating in and/or operating a business such as a t-shirt printing business or other campus venture under the supervision of the instructor.

Open to students in grades 9-12

ENTREPRENEURSHIP AND INNOVATION - Course 2 – Design Thinking

This is a capstone level course that trains students to further develop their entrepreneurial skills. Training includes operating a t-shirt printing, embroidery, laser etching business or other venture under the supervision of the instructor. Students will develop and launch their own personal projects. Students will compete in opportunities during the year. (SkillsUSA) Additional assignments in Google Classroom.

Prerequisite: Entrepreneurship Course 1

HEAVY CONSTRUCTION COURSE 1: Wood Framing and Plumbing Systems

This entry-level course will train students in construction and building design within residential and commercial construction. Students will learn safety standards and procedures, the use of power tools, blueprint reading, measurement and estimation. Students will acquire experience working with building materials while building projects. Students will compete in construction competition opportunities during the year.

(SkillsUSA) Open to students in grades 9-12

HEAVY CONSTRUCTION COURSE 2: Advanced Wood Framing and Plumbing Systems

This capstone course will train students in construction and building design within residential and commercial construction. Students will learn safety standards and procedures, the use of power tools, blueprint reading, measurement and estimation. Students will acquire experience working with building materials while building projects. Students will compete in construction competition opportunities during the year.

(SkillsUSA) Prerequisite: Heavy Construction Course 1

FIREFIGHTING OCCUPATIONS - Course 1

This entry level course provides students an overview of the eligibility and training standards required for careers in fire service that may include firefighting, arson investigating, rescue, and providing emergency medical services. This course introduces students to various aspects of fire behavior and fire science, including: combustion, fuels, and extinguishing agents. Students will gain practical hands-on experience with fire apparatuses, tools, and equipment, e.g., hoses and nozzles, ladders, pumps, and personal protective equipment. Students participate in training first aid, CPR (Cardiopulmonary Resuscitation) and rescue practices.

Open to students in grades 9-12

FIREFIGHTING OCCUPATIONS Course 2: Fire Control and Safety

This is a capstone level course with a pre-requisite of Firefighting Course 1. Students will gain practical hands-on experience with fire apparatuses, tools, and equipment, e.g., hoses and nozzles, ladders, pumps, and personal protective equipment. Students participate in CERT training as well as CPR and rescue practices. Students will compete in fire competition opportunities during the year. (SkillsUSA/HOSA)

Prerequisite: Firefighting Occupations Course 1

FIREFIGHTING/EMR

This is a capstone level course with a pre-requisite of Firefighting Course 1. Students will gain knowledge of Emergency Medical systems, the anatomy and physiology of the human body and the principles of emergency care and on-scene safety and precautions. Students will be CPR and rescue practice trained. Students will compete in fire/EMR competition opportunities during the year. (SkillsUSA/HOSA)

Prerequisite: Fire 1

Open to grades 11-12

EMERGENCY MEDICAL TECHNICIAN (EMT)

California law requires all ambulance attendants to be trained and certified at the EMT level. EMTs are often used as the first dispatched medical providers within an Emergency Medical Services (EMS) system. Training consists of 170 hours, broken down into lecture, lab and supervised field experience. Students must participate in an ambulance ride-along and hospital emergency room clinical. CalAPS will provide an EMT Course Completion Certificate, EMT skills verification including LA County Scope of Practice and access to test with the National Registry of Emergency Medical Technicians (NREMT). Students will compete in EMT competition during the year. (HOSA)

Prerequisite: Fire 1, Open to Grade 12 students ONLY

HEALTH OCCUPATIONS - Course 1

This entry level course provides students an overview of the eligibility and training standards required for various professions in the health industry and examines the roles and responsibilities of one or more entry-level job titles in the areas of biotechnology, patient care, administrative, operational support services, and community/public health. The goal of the course is to expose the students to the diverse career opportunities available in the healthcare field. Units of instruction include medical terminology, introduction to anatomy and physiology, CPR certification, infection control, communication, documentation, ethics, confidentiality, and patient care skills. Students will apply knowledge and skills acquired in the classroom while working in a healthcare environment. Community classroom opportunities are provided to students. Concurrent-related instruction reinforces on-the-job training experiences.

Prerequisite: Open to ages 16 and up ONLY and current TB test and Flu Vaccine

ANATOMY APPLICATIONS IN PATIENT CARE

This capstone level course is an elective science course that applies the knowledge of Anatomy and Physiology to understand the reasoning and basic skills of patient care. The course takes a hands on approach to include the skills and techniques used by medical professionals when dealing with injuries and illnesses.

Prerequisite: Health Occupations 1 and/or Introduction to Health Careers

SPORTS THERAPY/ATHLETIC TRAINER

This capstone course is designed to educate students in the rapidly growing field of Sports Medicine. The course will place a special emphasis on the anatomy and physiology of the human body related to athletics. Students will learn client care skills such as how to monitor vital signs, blood pressure, body temperature, basic first aid, CPR, fitness, rescue practices, and injury identification. Students from the class may also participate in an after-school Student Athletic Training Program that will allow them hands-on-field experience at the local high school athletic programs.

Open to students in grades 10-12 only.

LAW ENFORCEMENT SERVICES - Course 1

This introductory level course provides an overview of the eligibility and training standards required for various professions in law enforcement and examines the roles and responsibilities of the police, courts, corrections, private security, and other U.S. protective agencies. Students will learn the history and the development of law enforcement and the concerns facing law enforcement today including discretion, civil liability, decision-making, and police community relations. Students will gain experience in the area of police communications, report writing; procedures regarding probable cause, warrants, arrests, use of force, and patrol and traffic procedures.

Open to grades 9-12

LAW ENFORCEMENT SERVICES Course 2: Crime Scene/Introduction to Forensic Science

This capstone level course will prepare students for crime scene investigation, photographing of the crime scene, collection and preservation of evidence, and fingerprint techniques including comparison, rolling of prints, pattern identification and the Henry Classification. Students will gain an appreciation and understanding of the history of forensic science and how scientific evidence is used in court. Students will compete in law enforcement competition opportunities during the year. (SkillsUSA)

Prerequisite: Law Enforcement 1

MAKERSPACE "FAB LAB" COURSE 1

This is an entry-level course. Students work within a "workshop" to explore, build, and create achievable projects within a wide range of skills or areas. The "workshop" may cover alternative energy, animation, crafts, fashion, fiber arts, photography, robots, sustainability, vehicles, woodworking/carpentry, deconstruction, construction, circuits, motors and switches, propulsion, printing, architecture, etc. Students will compete in makerspace competition opportunities during the year. (SkillsUSA) Additional assignments in Google Classroom

Open to grades 9-12.

MAKERSPACE "FAB LAB" COURSE 2

Makerspace 2 is a capstone course. Students work within a "workshop" to explore, build, and create achievable projects within a wide range of skills or areas. The "workshop" may cover alternative energy, animation, crafts, fashion, fiber arts, photography, robots, sustainability, vehicles, woodworking/carpentry, deconstruction, construction, circuits, motors and switches, propulsion, printing, architecture, etc. Students will compete in makerspace competition opportunities during the year. (SkillsUSA) Additional assignments in Google Classroom

Prerequisite: Makerspace Course 1

CYBERSECURITY – Course 1

This entry-level course teaches the core concepts needed to assess, and protect information security systems. It will provide an overview of the technical background required to provide solutions to many cybersecurity problems. Topics covered includes: binary/hex number systems, operating system concepts, file systems, OSI model, network topologies and protocols. The material will be presented in the context of cybersecurity solutions and the need to fill a workforce shortage. Students will compete in makerspace competition opportunities during the year. (SkillsUSA) Additional assignments in Google Classroom.

Open to grades 9-12.

CYBERSECURITY – Course 2

This capstone course teaches advanced concepts needed to assess, and protect information security systems. Students explore in-depth technical backgrounds required to provide solutions to many cybersecurity problems. Topics covered includes: binary/hex number systems, operating system concepts, file systems, OSI model, network topologies and protocols. The material will be presented in the context of cybersecurity solutions and the need to fill a workforce shortage. Students will compete in makerspace competition opportunities during the year. (SkillsUSA) Additional assignments in Google Classroom

Prerequisite: Cybersecurity Course 1

CULINARY ARTS – Course 1

This entry-level course prepares students to understand the scientific principles of nutrition and careers related to food and nutrition. Instruction includes nutrition and health, food safety and sanitation, meal management, food purchasing and food preparation. Students will demonstrate the ability to prepare and properly serve various food items for consumption. Additional assignments in Google Classroom

Open to grades 9-12.

CULINARY ARTS – BAKING AND PASTRY ARTS

This is a capstone course which will build upon students' beginning culinary skills. Students will learn to make a variety of yeast breads, quick breads, cookies, cakes and pastries. Students will learn culinary techniques such as meringue production and egg tempering. Students will learn a variety of specialty desserts including Crème Brulee, homemade ice cream, custards and puddings. Students will also learn to decorate their own custom cake for a special occasion. Additional assignments in Google Classroom

Prerequisite: Culinary Arts 1

E-SPORTS/GAMING 1

This entry-level course looks at the design, programming, and social impact of video games. Approximately one half of the course is devoted to programming games, taking into account the importance of narrative, character development, and design principles. The class will look at games in the context of society, including the use of games in informing, educating and altering behavior. Additional assignments in Google Classroom. Open to grades 9-12.

E-SPORTS/GAMING 2

This is a capstone course. Students will develop skills to conceptualize, design, create an E Sport gaming experience, explore various video game software and hardware, and learn about game story lines, player progression and algorithmic decision making. Students will analyze player goals, player actions, rewards, challenges, and other game play components. Additional assignments in Google Classroom.

Prerequisite: E-Sports Gaming 1

INTRODUCTION TO FASHION, APPAREL, MERCHANDISING AND DESIGN

This introductory course provides students a basic understanding of fashion, textiles, design and construction. Emphasis is placed on fashion design and construction, fashion merchandising, fashion illustration, history of fashion, apparel and appearance, wardrobe and budgets. Additional assignments in Google Classroom

Open to grades 9-12.

ADVANCED FASHION, APPAREL, AND TEXTILES

This intermediate course provides students an in-depth study of fashion design and construction. Instruction focuses on clothing construction and design, the history of fashion, wardrobe budgets, and textiles. Students create a culminating portfolio of work and participate in a production to showcase their proficiency. Additional assignments in Google Classroom

Prerequisite: Introduction to Fashion, Apparel, Merchandising and Design

STAGE PRODUCTION TECHNOLOGY

This intermediate course provides students knowledge in lighting, audio, backline, stage plots and design, stage management, production management and box office/publicity/marketing. Students will learn how to design and stage a music or theater event on campus. Additional assignments in Google Classroom

Open to grades 9-12