

## Mathematics Courses

Course Title: AP Calculus & LMU Math 131

Department: Mathematics

Grade Levels: 10-12

This course is taught with the same level of depth and rigor as entry-level college and university calculus courses. These standards outline a complete college curriculum in one variable calculus. Calculus is a widely applied area of mathematics, and also involves intrinsic theory. Students mastering this content will be exposed to both of these important aspects of the subject. The focus of this course is to prepare the students to pass the AB AP Calculus exam in the spring as well as be prepared for calculus in college.

Length: One year. Prerequisite for enrollment: 85% or better in Pre-Calculus Honors; 95% or better in Pre-Calculus. Students enrolled in AP Calculus must either take the AP exam or enroll in Math 131 at LMU. AP Exam fees must be paid at time of student registration. Students may choose to do both. LMU does not accept waivers into this course. Students must meet all criteria for placement into Math 131.

Recommendation for Enrollment: Teacher recommendation, and a strong desire on the part of the student to succeed in this course.

Type of Course: College preparatory A-G and meets math graduation requirement.

Course Title: Pre-Calculus/Pre-Calculus Honors

Department: Mathematics

Grade Levels: 9-12

Pre-Calculus: Pre-Calculus is a discipline that combines many of the trigonometric, geometric, and algebraic techniques needed for the preparation of the study of Calculus, and strengthens conceptual understanding and mathematical reasoning when solving problems. This course takes a functional point of view to these topics. First semester concentrates on algebraic and transcendental functions and probability, and second semester is trigonometry, linear algebra, and sequences and series. Trigonometry is a discipline that utilizes the techniques of both the algebra and geometry that students have previously learned. The trigonometric functions studies are defined geometrically, rather than in terms of algebraic equations. Students will also use trigonometry in polar and parametric equations and conics. Facility with these functions as well as being able to prove basic identities regarding them is especially important for students intending to study Calculus, more advanced mathematics, Physics and other sciences, and engineering in college. Linear algebra includes matrix manipulation, and vectors. Sequences and series involves proof by mathematical induction as well as finding the terms in geometric and arithmetic sequences.

Pre-Calculus Honors: This course covers the same material in Pre-Calculus; however, the expectations for mastery are at a higher level, and the projects are more involved.

Length: One year. Prerequisite for enrollment: Pre-Calculus: 90% or better in Algebra 2, 80% or better in Algebra 2 Honors. Pre-Calculus Honors: 95% or better in Algebra 2 or 85% or better in Algebra 2 Honors.

Recommendation for Enrollment: Teacher recommendation and a strong desire on the part of the student to continue a rigorous study of mathematics.

Type of Course: College preparatory A-G and meets math graduation requirement.

Course Title: AP Statistics

Department: Mathematics

Grade Levels: 9-12

This course is taught with the same level of depth and rigor as entry-level college and university statistics courses. Students will appreciate the usefulness of obtaining and analyzing data for making decision and

advancing knowledge. Students will understand the "big picture" description of what statistics is and be able to identify the components of the big picture in specific instances of statistical work. The "big picture" recognizes that in understanding a process or population one must collect representative data, summarize the data to find pattern within it, and infer from the data back to the process or population. This paradigm applies to many but not all situations, and most scientific truths are the result of many instances of the paradigm. Students will understand the importance of data collection and be able to critique the quality of studies based upon issues of data collection. Students will appreciate the prevalence of statistics in the advancement of knowledge and will be able to intelligently discuss media reports about studies that involve statistical issues. Students will be able to apply basic data analytical techniques to uncover patterns and truths within data sets, and will understand the primary importance of graphing the data. Students will be able to apply the basic techniques of statistical inference to data, to interpret the results of a statistical analysis using the concepts of confidence interval or tests of significance, and to assess when particular inferential procedures are appropriate. Students will be able to communicate the results of statistical analyses or quantitative findings in writing and speaking.

Length One year.

Prerequisite for Enrollment: 80% or better in Algebra 2 or 70% or better in Pre-Calculus. Students enrolled in AP Statistics must take the AP exam.

Recommendation for Enrollment: Teacher recommendation and a strong desire on the part of the student to succeed in a college level course.

Type of Course: College preparatory A-G and meets math graduation requirement.

Course Title: Algebra 2 Honors

Department: Mathematics

Grade Levels: 9-10

This course covers the same material as Algebra 2; however the depth is more intense, students are required to be able to prove the theorems and derive the formulas, and the projects are more involved; requiring an in-depth analysis of the mathematics presented throughout the course.

Length: One Year.

Prerequisite for Enrollment for Algebra 2 Honors: 90% or better in Geometry.

Recommendation for Enrollment: Teacher recommendation.

Type of Course: College preparatory A-G and meets math graduation requirement.

Course Title: Algebra 2

Department: Mathematics

Grade Levels: 9-12

This course complements and expands the mathematical content and concepts of Algebra 1 and Geometry. Students who master Algebra 2 will gain experience with algebraic solutions of problems in various content areas, including the solution of systems of quadratic equations, logarithmic and exponential functions, the binomial theorem, and the complex number system. Students also begin to study trigonometry.

Length: One Year.

Prerequisite for Enrollment for Algebra 2: A 70% or better in Geometry.

Recommendation for Enrollment: Teacher recommendation.

Type of Course: College preparatory A-G and meets math graduation requirement.

Course Title: Geometry  
Department: Mathematics  
Grade Levels: 9-12

Geometry is a course that focuses on plane geometry; point, line, plane, geometric shapes. The geometric skills and concepts developed in this discipline are useful to all students. Aside from these skills and concepts, students will develop their ability with formal logical arguments and proofs in geometric settings and problems. Students will be exposed to the derivations in the outline. Students apply algebra skills from previous course within context of geometry problems and reasoning.

Length: One year.

Prerequisite for Enrollment: 70% of better in Algebra 1AB. Incoming students from the middle school: 85% of better in Algebra 1AB.

Type of Course: College preparatory A-G and meets math graduation requirement.

Course Title: Algebra 1AB  
Department: Mathematics  
Grade Levels: 9

Symbolic reasoning and calculations with symbols are central in Algebra, and in the understanding of Algebra, a student develops an understanding of the symbolic language of mathematics. In addition, algebraic skills and concepts are developed and used in a wide variety of problem solving situations. By the end of Algebra, students understand, use, and connect a variety of techniques for solving linear equations, inequalities, and systems of equations in applied contexts. They understand the meaning of variables, expressions, equations, and inequalities, and their use as models for situations. Students evaluate, graph, and interpret the graphs of a wide variety of functions, and connect the behavior of the graphs to their corresponding representations as tables, equations, and situations. Students apply proportional reasoning to connect geometric situations involving similarity to algebraic and numerical situations involving direct variation.

Length: One year.

Type of Course: College preparatory A-G and meets math graduation requirement.

Course Title: Business Accounting  
Department: Mathematics  
Grade Levels: 9-12

This course teaches the fundamentals of Accounting giving a head start to college for students planning to take Business Administration or Accounting as majors. It introduces the basic accounting principles relating to financial and managerial accounting keeping in mind Generally Accepted Accounting Principles. Students learn the bookkeeping and accounting principles for a service and merchandizing business, journals, ledgers, financial reports, payroll records, and banking using 10-key calculators, activity books and computer applications as well as personal financial literacy skills. Students will continuously compare and contrast the fundamentals of accounting with those of personal financial planning.

Students will also learn the about the business environment where these principles will be applied by learning about the nature of various businesses sectors including its products and services, management and structure, and learning the daily operations; supply and demand; taxation; the stock market; and international transactions. Students will learn about effective decision-making as it applies to business

ownership based on the Generally Accepted Accounting Principles through the fundamentals of managerial accounting principles.

Students also actively learn how to invest their money in the stock market by participating in the Stock Market Game and develop an individual personal financial plan. Students will apply what they have learned about the fundamentals of accounting to real-world businesses by creating a long-term and short-term plan for business development and growth.

Length: One year.

Type of Course: College preparatory A-G and meets math graduation requirement.

Course Title: Business Entrepreneurship

Department: Mathematics

Grade Levels: 9-12

Business Entrepreneurship is competency based course, where students either run a simulated business, or for the more advanced students, an actual business, to prepare them for working in a real business environment. Students learn the basics of Economics--micro and macro and its relationship to and impact on business operation in the private enterprise system. An in-depth study of the economy of the 21st century and aspects of marketing, advertising, finance, and international business are examined in the context of running a business or developing a project for an existing business or on campus club. The students determine the nature of their business, its products and services, its management and structure, and learn the daily operations of a business under the guidance of a consultant with the support of a real business partner.

They use current business software packages and the Internet for business transactions using Economics as a factor in decision making. The overarching goal of these courses is to develop each student's critical thinking, reading, and writing skills. Economic and marketing concepts, such as database management, advanced communications strategies, decision-making for the market place, and resource allocation and product distribution, are emphasized. Students will explore the utilization of traditional advertising, integrated marketing communications, and new media in local, regional, national and global markets. Students will be able to demonstrate critical thinking skills, to evaluate ideas and information, and to analyze and synthesize qualitative and quantitative evidence (both in the classroom and in the community).

Length: One year.

Type of Course: College preparatory A-G and meets math graduation requirement.

Course Title: Business Entrepreneurship

Department: Mathematics

Grade Levels: 9-12

## ENGINEERING PLACEMENT CRITERIA

<b>Introduction to Engineering Design</b>	<b>Principles of Engineering</b>	<b>Aerospace Engineering</b>	<b>Engineering Design and Development</b>
<b>Must meet criteria for placement</b>	<b>Must meet both criteria for placement</b>	<b>Must meet both criteria for placement</b>	<b>Must meet both criteria for placement</b>
Concurrent enrollment in or successful completion of Geometry	(1) Concurrent enrollment in or successful completion of Algebra 2 (2) 75% or better in Introduction to Engineering Design	(1) Concurrent enrollment in or successful completion of Pre-Calculus (2) 75% or better in Principles of Engineering	(1) 75% or better in Pre-Calculus (2) 75% or better in Aerospace Engineering

### ENGINEERING

**Course Title: Introduction to Engineering Design**

Department: Engineering

Grade Level: 9-12

Introduction to Engineering Design (IED) is a foundation course in the Project Lead The Way® high school pre-engineering program. The major focus of the IED course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. IED gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Students will employ engineering and scientific concepts in the solution of engineering design problems. In addition, students use a state of the 3D solid modeling design software

package to help them design solutions to solve proposed problems. Students will explore the design process, engineering drawing standards, CAD solid modeling, reverse engineering, consumer product innovation, and virtual teaming.

Length: One Year

Prerequisite for enrollment: Completion of Algebra I with a 75% or better

Recommendation for enrollment: Recommended 9<sup>th</sup> Grade Course

Type of Course: Satisfies an elective UC A-G requirement

**Course Title: Principles of Engineering**

Department: Engineering

Grade Level: 10-12

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 postsecondary 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. Students will employ engineering and scientific concepts in the solution of engineering design problems. Students will explore mechanisms, energy sources and applications, machine control, fluid power, statics, material properties and testing, statistics and kinematics.

Length: One Year

Prerequisite for enrollment: Completion of Geometry and Introduction to Engineering Design with a 75% or better.

Recommendation for enrollment: Recommended 10<sup>th</sup> Grade Course

Type of Course: Satisfies an elective UC A-G requirement

**Course Title: Aerospace Engineering**

Department: Engineering

Grade Level: 11-12

\*Pending UC Approval

Aerospace Engineering (AE) is the study of the engineering discipline which develops new technologies for use in aviation, defense systems, and space exploration. The course explores the evolution of flight, flight fundamentals, navigation and control, aerospace materials, propulsion, space travel, orbital mechanics, ergonomics, remotely operated

systems and related careers. In addition the course presents alternative applications for aerospace engineering concepts. Utilizing the activity-project-problem-based (APPB) teaching and learning pedagogy, students will analyze, design, and build aerospace systems. While implementing these designs, students will continually hone their interpersonal skills, creativity, and application of the design process. Students apply knowledge gained throughout the course in a final multi-media project to envision their future professional accomplishments.

Length: One Year

Prerequisite for enrollment: Completion of Algebra 2 and Principles of Engineering with a 75% or better.

Recommendation for enrollment: Recommended 11<sup>th</sup> Grade Course

Type of Course: Satisfies an elective UC A-G requirement

### **Course Title: Engineering Design and Development**

Department: Engineering

Grade Level: 12

\*Will not be offered until 2013-2014 school year pending UC Approval

Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Utilizing the activity-project-problem-based (APPB) teaching and learning pedagogy, students will perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams of students will design, build, and test their solution. Finally, student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of the design process. Engineering Design and Development is a high school level course that is appropriate for 12th grade students. Since the projects on which students work can vary with student interest and the curriculum focuses on problem solving, EDD is appropriate for students who are interested in any technical career path. EDD should be taken as the final capstone PLTW course since it requires application of the knowledge and skills from the PLTW foundation courses.

Length: One Year

Prerequisite for enrollment: Completion of Pre-Calculus and Aerospace Engineering with a 75% or better.

Recommendation for enrollment: Recommended 12<sup>th</sup> Grade Course

Type of Course: Satisfies an elective UC A-G requirement

## **English Courses**

Course Title: English 9 CP  
Department: English/Language Arts  
Grade Level: 9

This is an English/Language Arts class with an emphasis on high school entry level reading, writing, listening, speaking, and critical thinking skills while acquiring an appreciation of core literature selections as well as other types of reading. Genres studied include the short story, the novel, the play, non-fiction and poetry. Students will come to value the language process as a powerful tool for clarifying, expressing, and learning new ideas.

The writing process is emphasized as students learn pre-writing, drafting, responding, re-drafting, editing and final drafting skills. In addition, students develop vocabulary, spelling, punctuation, and grammar skills.

Length: One Year  
Type of Course: College preparatory A – G and meets graduation requirement.

Course Title: English 9 CP Honors  
Department: English/Language Arts  
Grade Level: 9

English 9 Honors is a course for students who have excelled at the basic skills of English/Language Arts. Emphasis will be placed on high level reading, writing, listening, speaking and critical thinking while acquiring an appreciation of literature. Genres studied include the short story, the novel, the play, non-fiction and poetry. Analytical and critical thinking are emphasized. A research project utilizing multi- media technology is required.

Length: One year  
Type of Course: Honors College Prep A - G

Course Title: English 10 CP  
Department: English/Language Arts  
Grade Levels: 10

English 10CP is a class with a continued emphasis on reading, writing, listening, speaking, and critical thinking skills. Personal, social, ethical, and aesthetic issues are considered as students develop a personal point of reference to the world. The writing process is emphasized as students develop pre-writing, drafting, responding, re-drafting, editing, and final drafting. A variety of writing experiences are primarily based on student reading. Emphasis is placed on the study of the novel, the play and non-fiction. Students continue to develop vocabulary, spelling, punctuation and grammar skills.

Length: One year  
Type of Course: College preparatory A – G and meets graduation requirement.

Course Title: English 10CP Honors  
Department: English/Language Arts  
Grade Level: 10

English 10CP Honors is for students who have developed high level language arts skills. Students will read selections from world and classical literature and will focus on literary analysis, writing, discussion and group projects requiring sophisticated critical thinking skills. Students must

be prepared to spend considerable time outside of class in study and preparation.

Students will also continue to refine their skills in vocabulary and written conventions. They will participate in activities to prepare for the PSAT, a test given in their junior year. This class is designed to prepare students to continue in the English Honors program.

Length: One year

Type of Course: College preparatory A – G and meets graduation requirement.

Course Title: English 11CP  
Department: English/Language Arts  
Grade Level: 11

English 11AB is a course in which students explore the writings of American authors from a historical perspective, while learning to analyze literary form and style. There is a continued emphasis on reading comprehension and the writing process. Enhancement of spoken, written, and reading vocabulary is emphasized. Students will write a term paper. A research project utilizing multi-media technology is required.

Length: One year.

Type of Course: College preparatory A – G and meets graduation requirement.

Course Title: English 11CP Honors  
Department: English/Language Arts  
Grade Level: 11

English 11CP Honors is intended to prepare students for the challenging demands of a university program. Students who enroll should plan to spend considerable time in home study. Students explore the writings of American authors by intense study in each genre. Two extensive literary analysis term paper and a multi-media research project are required. Students read and analyze ten novels and plays followed by in depth discussion and substantial writing assignments. Students will be expected to perform at a high level of critical thinking and application of sophisticated communication skills as they analyze a variety of literature forms.

Students will prepare for the ACT and SAT tests.

Length: One year.

Prerequisites: Consistent completion of assignments in English 10 CP Honors. Successful completion of English 10 CP Honors course with 86% or higher.

Type of Course: Honors college prep A – G and meets graduation requirement.

Course Title: ERWC: Expository Reading and Writing Course  
Department: English/Language Arts  
Grade Level: 12

The Expository Reading and Writing Course (ERWC) was developed by the California State University System to better preparing college-bound students to do the academic reading and writing tasks expected by college faculty across the disciplines, not just in English departments. Students in this yearlong, rhetoric-based course develop advanced proficiency in expository, analytical, and argumentative reading and writing. They receive instruction in a process for reading, comprehending and responding to nonfiction and literary texts, and in research methods and documentation conventions. Students will be expected to increase their awareness of the rhetorical strategies employed by authors and to apply those strategies in

their own writing. They will read closely to examine the relationship between an author's argument or theme and his or her audience and purpose; to analyze the impact of structural and rhetorical strategies; and to examine the social, political, and philosophical assumptions that underlie the text.

Length: One year.

Type of Course: College preparatory A – G and meets graduation requirement.

Course Title: AP English Language and Composition

Department: English/Language Arts

Grade Levels: 11 and 12

This course is designed to give to the student the necessary skills in analyzing and interpreting the elements of each genre of literature, writing well-organized, competent essays, including each of the domains required by the Advanced Placement exam, and emphasizing critical thinking. This course will engage students in becoming skilled readers of prose in a variety of periods, disciplines and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and reading will make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. A major focus of this course will be to prepare the students for the English Language and Composition Advanced Placement Examination. This course will prepare the students to be successful when entering college and will address California State Standards.

Length: One year.

Prerequisite for Enrollment: Desire to write well. Must pay for the AP Exam at Registration.

Cost of AP Exam is approximately \$87.00.

Type of Course: College preparatory A-G and meets graduation requirements.

Course Title: Advanced Placement Literature and Composition

Department: English/Language Arts

Grade Level: 12

This program is designed as an introductory college-level course in reading and critical analysis of literature. Its purpose is to acquaint the student with significant forces in contemporary life and to demonstrate how these forces have affected literature. This involves language as a symbolic process and literature as experience preserved in language. It is also designed to help the student identify, describe and analyze the elements of each literary genre and to write competent, well-organized papers in a variety of styles, modes and voices. Students will participate in eclectic activities that will prepare them for the Advanced Placement Literature and Composition examination as well as success upon entering college; in addition, the course will address the California State Standards.

Length: One Year

Prerequisite for Enrollment: 86% or better in English 11 HONORS, Students Must pay for the AP Exam at Registration. Cost of AP Exam is approximately \$87.00.

Type of Course: College preparatory A-G and meets graduation requirements.

Course Title: Screenwriting (Study of Film)  
Department: English/Language Arts  
Grade Level 10-12

This one-semester course will focus on composition in film, plot, character, setting, three-act screenplay development and writing, film viewing and critiquing. Students will sharpen critical skills by examining the differences between written art and visual art, will understand and appreciate the art of film, explore its influence sociologically and psychologically, master the terminology of film, with the end goal of each student writing a screenplay, or one or more of the three Acts which constitute a screenplay. Students will understand the structure of film and screenwriting with an eye toward majoring in Cinema at the university level or finding entry-level positions in the entertainment industry.

Length: One Year

Prerequisite for Enrollment: C in English 9

Type of Course: Meets graduation elective requirements College Prep A – G.

## **Languages Other Than English (LOTE) Courses**

Course Title: Spanish 1  
Department: LOTE  
Grade Levels: 9-12

This course will provide the student with a general introduction to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. There are two main objectives to the course. Foremost is to give the students the ability to carry on a simple conversation. The course also endeavors to introduce the students to the cultural richness and diversity of the Spanish-speaking world.

Length: One year.

Prerequisite for Enrollment: Middle School: 90% or better in 7th grade English. High School: 80% or better in 8th grade or High School English

Recommendation for Enrollment: Teacher Recommendation

Type of Course: Elective. Meets foreign language high school graduation requirement. College Preparatory A - G

Course Title: Spanish 2  
Department: LOTE  
Grade Level: 9-12

Spanish IIAB is intended to reinforce the skills learned in Spanish IAB: listening, speaking, reading and writing. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary is expected. Students will be exposed to the past tenses found in short reading selections and will be expected to apply them in their writing and speaking. Students will have the opportunity to participate in field trips to study art at the Norton Simon Art Museum, attend Spanish language performances for students such as Don Quijote or the Ballet Folklorico.

Length: One year

Prerequisite for enrollment: 80% or better in Middle School Spanish 1; 70% or better in High School Spanish 1

Recommendation for Enrollment: Teacher Recommendation

Type of Course: College preparatory A - G,

Course Title: Spanish 3  
Department: LOTE  
Grade Level: 9 through 12

In this course students will develop their ability to comprehend Spanish spoken by native speakers from different countries, converse comfortably in informal situations, express themselves with accuracy and fluency in more formal business or professional situations, communicate effectively, read with comprehension, analyze situations and think critically, express their ideas accurately in writing with appropriate vocabulary and syntax and show an understanding of historical and cultural perspective. Topics and activities will include every day life and concerns, current affairs, history, geography, art, literature and culture. Material will be

based on a variety of resources including lecture, reading, tapes, videos, films, pictures and media. Since learning advanced language skills requires excellent study habits, this course will require substantial study time outside of class.

Length: One year

Prerequisite: 70% or better in Spanish 2

Recommendation for Enrollment: Teacher recommendation

Type of Course: College preparatory A - G

Course Title: Spanish 4

Department: LOTE

Grade Level: 10-12

Spanish 4 is a course for students who have completed Spanish 3 or who perform at Stage 3 competencies in comprehension, thinking, speaking, reading and writing. There will be continued emphasis on vocabulary development, the correct use of idiom, proficiency in the use of verbs and syntax, and increased emphasis on reading and composition. The course will include content related to the cultural perspectives inherent in language, geography, history, tradition, art, music, dance and literature. Students will explore topics that are less familiar, experiment with more complex structures associated with advanced functions, and engage in more elaborate discourse. Since learning advanced language skills requires excellent study habits, this course will require substantial study and practice time outside of class. Course content prepares students for the SAT II in Spanish.

Length: One year

Prerequisite for Enrollment: 70% or better in Spanish 3

Recommendation for Enrollment: Teacher Recommendation

Type of Course: College Preparatory A - G

Course Title: Spanish 4 Honors

Department: LOTE

Grade Level: 10-12

This course emphasizes comprehension, thinking, speaking, reading and writing in Spanish. There will be continued emphasis on vocabulary development, the correct use of idiom, proficiency in the use of verbs and syntax, and increased emphasis on reading and composition. The course will include content related to the cultural perspectives inherent in language, geography, history, tradition, art, music, dance and literature. Students will explore topics that are less familiar, experiment with more complex structures associated with advanced functions, and engage in more elaborate discourse. Since learning advanced language skills requires excellent study habits, this course will require substantial study and practice time outside of class. Course content prepares students for the SAT II in Spanish.

Length: 1 year

Prerequisite for enrollment: 90% or better in Spanish 3

Recommendation for enrollment: Teacher Recommendation

Type of Course: College Preparatory A - G

Course Title: Advanced Placement Spanish Language

Department: LOTE

Grade Level: 11-12

This course prepares students for the Spanish Language Advanced Placement Examination. Students will develop their ability to: comprehend Spanish spoken by native speakers from different countries, converse comfortably in informal situations, express themselves with accuracy and fluency in more formal business and professional situations, communicate ideas effectively, read with comprehension, analyze situations and think critically, and express their ideas effectively in writing with appropriate vocabulary, idiom and syntax. There will be continued emphasis on vocabulary development, correct use of idiom, proficiency in the use of verbs and syntax, and increased emphasis on reading and composition. The course will include content related to the cultural perspectives inherent in language, geography, history, tradition, art, music, dance and literature. This course will require substantial study and practice time outside of class.

Length: 1 year

Prerequisites for Enrollment: 85% or better in Spanish 4 Honors. Must pay for the AP Exam at Registration. Cost of AP Exam is approximately \$87.00.

Recommendation for Enrollment: Teacher recommendation and interest

Type of Course: College level course A - G

Course Title: American Sign Language (ASL)

Department: LOTE

Grade Levels: 9-12

This course will introduce students to American Sign Language. It attunes students to communication in the manual-visual mode, followed by instruction and practice in vocabulary, sentence structure, elementary conversation, and literature. In addition, the course provides a survey of various issues raised by examining ASL and the Deaf community.

## Science Courses

Course Title: Earth Science

Department: Science

Grade Levels: 9-12

Earth Science provides the student with an overview of the earth's processes, theories and principles. This course investigates the earth's place in the universe as well as its impact on the universe. Topics covered are astronomy, geology, meteorology, oceanography, and ecology.

Length: One year.

Prerequisite for enrollment: None.

Recommendation for enrollment: Recommended 9th Grade Course

Type of Course: Meets high school graduation requirements

Course Title: Biology 1AB

Department: Science

Grade Levels: 9-12

This course will provide the student with an overview of biological processes, theories and principles. Topics covered are ecology, populations, evolution, genetics, cells, molecules and the human body. College-bound students will receive enough background in the subject for success in introductory college biology courses and all students will be provided with the information necessary to make decisions involving biological issues.

Length: One Year

Prerequisite of Enrollment (1) Entering Sophomores must have a 70% or better in Earth Science. (2)

Entering Freshmen must meet the following criteria: 80% or better in 8th grade Science, concurrent enrollment in Geometry or higher math course.

Recommendation: Freshmen who wish to take Biology as their first high school science skip Earth Science but agree to take Chemistry in the 10th grade to satisfy the Physical Science graduation requirement. This course sequence is in place for students who wish to take advanced science courses in both the 11th and 12th grades.

Type of Course: A - G. Biology is a college preparatory laboratory science course. It satisfies the high school life science requirement and meets the California State Biology Science Standards. College Prep.

Course Title: Chemistry 1AB

Department: Science

Grade Levels: 10-12

Chemistry is a laboratory science course that emphasizes the physical environment at the atomic level. This course covers atomic properties, reaction principles, states of matter, and the many applications of chemistry in the modern world. This course is essential for students considering careers in science, particularly health sciences, and engineering.

Length: One Year

Prerequisite for enrollment: Concurrent enrollment in, or completion of Geometry 1AB, 75% or

better in Biology 1.

Type of Course: A - G. Chemistry satisfies the physical science and laboratory science requirement for graduation and meets the California State Chemistry Science Standards. College Prep.

Course Title: Physics 1AB  
Department: Science  
Grade Levels: 11-12

Physics is a laboratory science course that explores the fundamental laws of the universe. This course investigates the laws of motion, forces including friction and gravitation, energy and momentum, waves and optics, thermal energy and states of matter, electricity and magnetism. It also gives an introduction to relativity, quantum physics, nuclear physics, and theories of the universe's origin and fundamental structure. Physics should be considered essential for students considering careers in construction, science engineering, health and fitness, and all technical and professional degrees.

Length: One Year

Prerequisite for enrollment: Concurrent enrollment, or completion of Algebra 2AB, 75% or better in Chemistry.

Type of Course: A - G Physics is a laboratory science course that meets the California State Physics Science Standards. College Prep.

Course Title: AP Physics  
Department: Science  
Grade Level: 11-12

The purpose of this course is to prepare students for the AP Physics B exam. This course provides an understanding of the basic principles involved with physical concepts and the ability to apply these principles in the solution of problems. The course content includes topics in mechanics, kinetic theory and thermodynamics, electricity and magnetism, waves and optics, and modern physics.

This one-year course meets the Laboratory Science elective requirement as well as the Physical Science graduation requirement. This course may not be repeated for credit.

Length: One Year

Prerequisite for Enrollment: 75% or better in Biology, Chemistry and Algebra II. College Prep. A – G. Cost of AP Exam is approximately \$87.00.

Course Title: Biology 2AB  
Department: Science  
Grade Level: 11 – 12

This course offers a third year of science to all students following their introductory courses. The aim of this advanced science course is to concentrate on a few science concepts but learn them in greater detail than in a survey course. Biology II uses marine science as a theme to connect the topics of diversity of life, anatomical adaptations, and ecology conceptually. It is recommended for any student who has an interest in marine biology.

Using the oceans as a theme, students will be able to expand their knowledge of topics found in the California State Science Standards for Biology, Earth Science, Chemistry and Physics.

Length: One Year.

Prerequisite for Enrollment: Biology 1AB.

Recommendation for Enrollment: Biology I and Chemistry.

Type of Course: A - G. Biology II is an elective laboratory science course.

Course Title: AP Biology

Department: Science

Grade Levels: 11-12

This course is equivalent to a college level introductory biology majors course. Students will survey major topics and fundamental concepts found in the biological sciences. These include organic molecules, cellular biology, energy transformations, patterns of inheritance, evolution, biodiversity, functional human anatomy and ecology. Students may earn college credit of a score of 3 or better on the AP Biology exam.

Length: One Year

Prerequisite of Enrollment: 80% in Biology I and Chemistry.

Requirement for Enrollment: Cost of AP Exam is approximately \$87.00.

Type of Course: College Prep. A – G.

Course Title: Human Anatomy & Physiology

Department: Science

Grade Levels: 11-12

Human Anatomy and Physiology is a rigorous third year science course for those students interested in biology, medicine, and health care professions. This is a lab course that will meet the UC Board of Regents criteria for college prep elective. Students will not only gain an understanding of the essentials of how the human body functions, but will also become very practiced in correct laboratory procedures.

Length: One Year

Prerequisite of Enrollment: Biology AB with a “C” or better, Chemistry AB or Integrated Science II with a “C” or better, Algebra I.

Type of Course: This course is based on three thematic units of study: Homeostasis, Energy, and Growth and Development.

Recommendation for Enrollment: Teacher recommendation, and a strong desire on the part of the student to succeed in this course.

Type of course: College preparatory A - G and meets the life science requirement.

## **Career Readiness and Explorations**

Course Title: Career Pathways and Workforce Readiness

Department: Electives

Grade Levels: Suggested for 11 and 12

This course is designed to prepare students for college, careers, and the workforce. It includes an in-depth overview of the five-year projected job market workforce needs, as they apply to students' individual career interests and goals. Emphases are placed on the study of current economy, employment trends, and the need for students to become productive, responsible, and contributing citizens.

Students develop an understanding of their personality, learning styles, and skill sets. They match these with careers that are best suited for them individually. Students also research, assess, and identify their career options, as well as the Career Pathways and/or course clusters available to them while in high school. Using 21<sup>st</sup> Century Skills, including Collaboration, Communication, Technology, Problem-Solving, Inquiry, and Independent Learning, students refine their ability to pursue and obtain jobs, internships, Career Technical Education, and college degrees that will serve to springboard them into their places in the overall global economy.

Length: One year

Prerequisite for Enrollment: 11th or 12<sup>th</sup> grade

Type of Course: Elective

## **History-Social Science Courses**

Course Title: World Geography  
Department: History-Social Science  
Grade Levels: 9

This one-semester course is designed as a combination of two grade nine elective courses: Physical Geography and World Regional Geography. This includes a systematic discussion of the physical landscape through geomorphology and topography, the patterns and processes of climate and weather, and water resources through hydrology. Attention is also given to the nature of natural resources and their relation to physical geography. Additionally, place-name geography is explored so that students develop a good sense of where major physical features of the earth are located. There is also extensive discussion of the distribution and characteristics of the world's major cultures and of the dynamics of migration and cultural diffusion. Furthermore, students will explore why people and nations of given areas behave the way they do and discuss the relationship between the economic problems and the geography of the region. The objective of the course is to lay the foundation for success in all academic areas while at the same time enable and prepare the student for success in our contemporary world.

Length: One year.

Prerequisite for Enrollment: Ninth grade standing.

Recommendation for Enrollment:

Type of Course: Required for high school graduation. College Prep. A – G.

Course Title: World History  
Department: History-Social Science  
Grade Level: 10

Students in grade ten study major turning points that shaped the modern world, from the late eighteenth century through the present, including the cause and course of the two world wars. They trace the rise of democratic ideas and develop an understanding of the historical roots of current world issues, especially as they pertain to international relations. They extrapolate from the American experience that democratic ideals are often achieved at a high price, remain vulnerable, and are not practiced everywhere in the world. Students develop an understanding of current world issues and relate them to their historical, geographic, political, economic, and cultural contexts. Students consider multiple accounts of events in order to understand international relations from a variety of perspectives.

Course Length: One Year

Prerequisite for Enrollment: 10th Grade Standing

Type of Course: College Preparatory. High School Graduation Requirement. A – G.

Course Title: United States History  
Department: History-Social Science  
Grade Level: 11

United States History is a challenging course that is meant to enhance the students' ability to reason and think like an historian. It is a two-semester survey of American history from the Age of Exploration and Discovery to the present. Solid reading and writing skills, along with

willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, writing, and interpretation of original documents. In this required eleventh grade course, students analyze and evaluate American political, social, and economic behavior during major periods in the nation's experience. Multiple factors that effect continuity and change in historical settings are studied, in addition to the outstanding contributions of individual Americans. The course traces the change in ethnic composition of American society, the movement toward equal rights for racial minorities and women, and the expanding role of the Federal government.

Length: One Year

Prerequisite for Enrollment: 11th Grade Standing

Type of Course: College Preparatory A – G.

Course Title: Advanced Placement United States History  
Department: History-Social Science  
Grade Level 11

This is a rigorous college level U.S. History course that prepares students to take the AP Exam. The reading is intense and abundant. Students may earn college credit for a score of 3 or better on the AP exam. Prepaid registration for the exam by the end of the 4th week of fall semester is required. Students must receive a letter grade of "B" in order to advance to the next semester. The Study of United States History is designed to provide students with analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States history. This course prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance, and to weigh the evidence and interpretations presented in historical scholarship. This course will help develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

Length: One Year.

Prerequisite for Enrollment: 90% or better in World History. Concurrent enrollment in English 11 Honors. Students must also be enrolled in Honors English. Students enrolled in AP U.S. History Must pay for the AP Exam at Registration. Cost of AP Exam is approximately \$87.00.

Recommendation for Enrollment: Strong recommendation by a history teacher and score of 75% or better on the STAR

Type of Course: College Level. A – G.

Course Title: Economics  
Department: Social Studies  
Grade Level: 12

The primary goals of the study of microeconomics and macroeconomics are to help students become responsible citizens and effective decision makers. Students will develop an understanding of basic economic microeconomic principles, including the law of supply and demand, scarcity, the role of the market place, competition and choice. In their study of macroeconomics, topics covered are inflation and unemployment, measures of national wealth, the economic role of the government, and international trade and finance. Personal economic decision-making is integrated throughout the course in such areas as investments, job choice, and consumer information.

Length: One Semester.

Prerequisite for Enrollment: 12th grade standing.

Type of Course: Required for high school graduation. A – G.

Course Title: Political Behavior (Government)

Department: History-Social Science

Grade Level: 12th

Students in grade twelve pursue a deeper understanding of the institutions of American government. They compare systems of government in the world today and analyze the history and changing interpretations of the Constitution, the Bill of Rights, and the current state of the legislative, executive, and judiciary branches of government. An emphasis is placed on analyzing the relationship among federal, state, and local governments, with particular attention paid to important historical documents such as the Federalist Papers. These standards represent the culmination of civic literacy as students prepare to vote, participate in community activities, and assume the responsibilities of citizenship.

Length: One Semester.

Prerequisite: 12th grade standing

Type of Course: Meets Graduation Requirement. College Prep. A – G.

Course Title: Psychology

Department: History-Social Science

Grade Levels: 11th – 12th

This course is designed to introduce students to the theoretical concepts of psychology and to use this knowledge to develop a curiosity about the causes of human behavior. The emphasis of this course will include the study of famous psychologists and their theories on personality, learning, and human development. The lifespan development domain will provide learning opportunity about processes that occur throughout life. This course will give students the knowledge, attitudes, and skills that will help them understand and appreciate our multi-generational and multi-cultural society. The socio-cultural domain will explore psychological disorders and their treatment. Students will develop the ability to understand issues from diverse points of view and interact effectively with others.

Length: One semester.

Prerequisite for Enrollment: None other than appropriate grade level

Type of Course: College Prep. A – G.

Course Title: Advanced Placement Psychology

Department: History-Social Science

Grade Levels: 11th – 12th

Prerequisite: None

The AP Psychology course is designed to introduce student to the systematic and scientific study of the behavior and mental processes of human beings and other animals. AP Psychology is a college level course designed to prepare students for their transition from High School to College. Students are exposed to the

psychological facts, principles, and phenomena associated with each of the major subfields within psychology. There are five content domains in AP Psychology which include: Methods, Biopsychological, Cognitive, Developmental, and Sociocultural. To accomplish this, the course provides instruction in each of the following 14 content areas: History and Approaches, Research Methods, Biological Bases of Behavior, Sensation and Perception, States of Consciousness, Learning, Cognition, Motivation and Emotion, Developmental Psychology, Personality, Testing and Individual Differences, Abnormal Psychology, Treatment of Psychological Disorders, and Social Psychology. Students also learn about the ethics and methods psychologists use in their science and practice. Students are expected (although not required) to take the Advanced Placement Psychology Exam.

## **Visual and Performing Arts (VPA) Courses**

Course Title: Photography

Department: VPA

Grade Level: 9 – 12

Photography I is an introduction to black and white photography. This course will provide students with opportunities to extend their knowledge and skills in the field of photography. This course will familiarize the student with photographic equipment, materials, methods, and processes. Students will also be introduced to computer technology and digital photography.

All Eagle Expectations apply to this course: Integration of Core Knowledge; Critical Thinking; Effective Communication; Personal and Social Development

Length of course: One year (10 credits)

Pre-requisites: shop donation

Type of Course: Elective; A - G

Course Title: Drama AB

Department: VPA

Grade Level: 9-12

This course is designed to introduce the art of the actor through performance. Through various processes each student will discover what is encompassed in the history of drama and the dramatic profession. Through reading the textbook and scripts; writing essays and scripts; design, acting, and lecture, students will have a beginning understanding of the history of drama and the dramatic profession. Students will understand the historical nature of the study of the history of drama through the making of connections between drama, society, culture, government and people. Students will experiment with and learn about different acting, directing, and designing techniques. Students will demonstrate a working knowledge of how to critique theatrical productions, successfully applying the terminology of evaluation.

Length: One year

Prerequisite for Enrollment: For UC/CSU credit: maintain a grade of B or better in current English class or have a strong teacher recommendation.

Type of Course: Elective. A - G

Course Title: Sculpture 1 A/B

Department: VPA

Grade Level: 9-12

This course consists of a discipline-based art curriculum that focuses on art history, aesthetics, art appreciation and studio production. The students will study major historical movements in the history of sculpture and ceramics as well as the significant three-dimensional artistic contributions of specific world cultures. Philosophies of sculptural art will be examined and applied to student works and the art of the masters through description, analysis, interpretation and evaluation of these works. A variety of sculptural techniques and processes will be explored as students learn how to effectively express their imagination and strengthen creative problem solving skills. The objectives of this course include the ability to demonstrate a working knowledge of sculpture vocabulary, artistic media, art history/world cultures, and three-dimensional techniques through adequate completion of at least 70% of all studio projects, tests/quizzes, in-class assignments, homework and a final examination. Emphasis is on the development of technical aptitude, an

expanded expression of student's imagination and an increase in critical viewing response skills that indicate both verbal and expository writing abilities.

Length: One Year

Prerequisite for Enrollment: shop donation

Recommendation for enrollment: Interest in art history, art appreciation and studio practices.

Type of Course: College preparatory A - G; elective

Course Title: Advanced Art 2 A/B

Department: VPA

Grade Level: 10-12

This course consists of a discipline-based art curriculum that focuses on art history, aesthetics, art appreciation and advanced studio production. The students will study major historical movements in the history of art as well as the significant artistic contributions of specific world cultures. Philosophies of art will be examined and applied to student work and the art of the masters through description, analysis, interpretation and evaluation of these works. A variety of advanced artistic techniques and processes will be explored as students continue to effectively express their imagination and strengthen creative problem solving skills. The objectives of this course include the ability to demonstrate a working knowledge of art vocabulary, artistic media, art history/world cultures, and art techniques through adequate completion of at least 70% of all studio projects, tests/quizzes, in-class assignments, homework and a final examination. Emphasis is on portfolio development, an expanded expression of imagination and an increase in critical viewing response skills that indicate strong artistic aptitude as well as verbal and expository writing abilities.

Length: One Year—may be repeated

Prerequisite for Enrollment: Art 1 A/B/ shop donation

Recommendation for Enrollment: Teacher recommendation

Type of Course: College preparatory A - G; elective

Course Title: Chamber

Department: VPA

Grade level: 10 – 12

This course is designed to give advanced choral music students the necessary skills needed to develop a higher understanding of choral music and the production of the voice. Students will be able to demonstrate advanced music theory, sight-reading, tone production. The students will be able to discuss the differences between the following musical periods: Renaissance, Baroque, Classical, Romantic, and Modern. The students will keep a "Daily Journal" where they will analyze and critique many different elements of their own choral sound. Each student will participate in 4 live performances each semester. This course will prepare the students to be successful in college by helping them meet the 12th grade National Standards in music.

Length: One Year.

Prerequisite for Enrollment: A 90% or above grade in their 9th grade chorus class. An 80% or better on a music theory entrance exam. A vocal audition by the instructor.

Recommendation for Enrollment: Students that have past experience in music and have a deep appreciation for choral music.

Type of Course: College preparatory A - G and meets graduation requirements.

Course Title: Chorale  
Department: VPA  
Grade level: 9 – 12

This is a non performance course designed to give students basic skills needed to develop an understanding of choral music and the production of the voice. Students will be able to demonstrate basics of: music theory, sight reading and tone production. The students will practice different musical genres from Renaissance music to Popular. Students will be given opportunities to participate in a few non required performances each semester. No homework is given in this class and each student is graded on their class participation. Many students take advantage of our over-night performances we participate in across the United States. This course will prepare the students to be successful in college by helping them meet the 9th grade

Length: One Year

Prerequisite for Enrollment: A vocal audition by the instructor.

Recommendation for Enrollment: Students that have past experience in music and have an interest for choral music.

Type of Course: College preparatory A - G and meets graduation requirements.

Course Title: Advanced Band  
Department: VPA  
Grade Levels: 9-12

The purpose of this course is to develop artistic skills and knowledge, such as creating, performing, and producing as well as to develop critical analysis and aesthetic understanding of music. Students will make interdisciplinary connections and study music in a historical and cultural context. Students will read, notate, listen to, analyze and describe music and other oral information, using the terminology of music. All students will engage in active performance and provide a challenging regimen at all levels. Students will be using available technology to reinforce and enhance exploration and technical development as well as assist students in transcribing and composing music.

Length: One year

Prerequisite for Enrollment: Two or more years of Band

Recommendation for Enrollment: Teacher consent

Type of Course: Elective. College preparatory A - G, this course meets the Fine Art requirement

Course Title: Art 2 A/B  
Department: VPA  
Grade Level: 9-12

This course focuses on both two and three dimensional art production—including painting on canvas, watercolor, drawing and clay sculpture. Students will study major historical art

movements as well as the significant artistic contributions of specific world cultures. Philosophies of art will be examined and applied to student work and the art of the masters through description, analysis, interpretation and evaluation of these works. A variety of artistic techniques and processes will be explored as students continue to effectively express their imagination and strengthen creative problem solving skills. The objectives of this course include the ability to demonstrate a working knowledge of art vocabulary, artistic media, art history/world cultures, and art techniques through adequate completion of at least 70% of all studio projects, in-class assignments, and a final examination. Through the process of creating works of art, students will expand their visual expression, critical viewing response skills, and expository writing abilities.

Length: One year—may be repeated

Prerequisite for Enrollment: shop fee required

Type of Course: College preparatory A - G; elective

Course Title: Advanced Placement Studio Art

Department: VPA

Grade Levels: 10-12

Advanced Placement Studio Art is a rigorous and challenging portfolio course designed to fulfill the College Board program of study as well as fulfill each of the 5 content strands of the Visual Art Standards. This course is intended to promote creative as well as systemic investigation of both formal and conceptual issues in art. Students will develop decision-making skills and cultivate independent thinking through the creation of a focused collection of work that exhibits quality, concentration and a broad exploration of artistic concepts and media use. Research across component strands of the standards in art history and criticism, aesthetics, technological developments and cultural influences will be integral to the making, analysis and appreciation of art through the Advanced Placement Studio Art curriculum.

Length: One year

Prerequisite for Enrollment: Successful completion of one year of Advanced Art with a minimum grade of A/90%, demonstration of comprehensive knowledge in all five component strands of the Visual Arts Standards through a portfolio review. Shop donation.

Type of Course: College preparatory A - G; elective

Recommendation for Enrollment: Consent of the instructor

Course Title: Sculpture/Ceramics

Department: VPA

Grade Level: 9-12

This course focuses on three dimensional art production—including both functional and nonfunctional clay works, plaster projects, and assemblage art, etc. Students will also study major historical sculpture movements and the significant sculptural contributions of specific world cultures. Philosophies of art will be examined and applied to student work and the art of the masters through description, analysis, interpretation and evaluation of these works. A variety of sculptural techniques and processes will be explored as students continue to effectively express their imagination and strengthen creative problem solving skills. The objectives of this course include the ability to demonstrate a working knowledge of art vocabulary, artistic media, art history/world cultures, and art techniques through adequate completion of at least 70% of all studio projects, in-class assignments, and a final examination. Through the process of creating sculpture, students will expand their visual expression, critical viewing response skills, and expository writing abilities.

Length: One year—may be repeated

Prerequisite for Enrollment: shop fee required

Type of Course: College preparatory A - G; elective

## **General Courses**

Course Title: Academic Decathlon  
Department: General  
Grade Levels: 9 – 12

Students in this course prepare for the Academic Decathlon competition in February. It is comprised of ten events. There are seven multiple-choice exams- one in each of the following subject areas: Art, Economics, Language and Literature, Mathematics, Music, Social Science, and Super Quiz (Science). The Super Quiz event includes an oral relay portion in addition to the written exam. Both the Super Quiz written exam and the Super Quiz oral relay are in multiple-choice format. Students will also take an Essay exam and will be judged in a Speech event as well as an Interview event.

Following the competition, the students continue to participate in essay writing and speaking competitions, until the following year's course of study is made available in May.

Length: One year

Prerequisite for Enrollment: none

Recommendation for Enrollment: Interest

Type of Course: Elective

Course Title: Student Government  
Department: General  
Grade Level: 9-12

Students learn organization and leadership skills as they develop activities, manage and evaluate all extra curricular activities and finances. Some of the extra curricular activities students are responsible for planning are Homecoming, Red Ribbon Week, Coronation, International Week, Prom, and many other dances. They also engage in various community service projects such as, blood drives, canned food drives, Senior Citizen Tea, etc.

All ASB officers and class officers must be enrolled in this class. Other students are welcome to apply for enrollment, if they meet the following enrollment criteria.

Length of Course: One to four years

Prerequisite for Enrollment: Interest

Recommendation for Enrollment: letter of application, GPA of 2.5 or above, interview and recommendation of ASB Cabinet, all satisfactory citizenship marks, recommendation by staff members and/or administration

Type of Course: Elective

Course Title: Southern California Regional Occupation Center (SoCalROC)  
Department: General  
Grade Level: 10-12 grades

Southern California Regional Occupational Center (SCROC) is a vocational training facility. Its purpose is to provide entry level and advanced job training and employment assistance for high school students. These programs are endorsed by the industries they represent. Students may

earn certificates of proficiency or state proficiency and prepare for licensing exams. Students may register for a variety of programs in over 30 career areas through SCROC.

Length of Course: One-four semesters

Prerequisite for Enrollment: Interest

Recommendation for Enrollment: Complete SCROC application with Counselor recommendation

Type of Course: Elective

Course Title: Work Experience

Department: General

Grade Level: 11-12 grades

Students receive work experience credit for a part time job that is possibly related to their career goal. Students must regularly attend their job at least ten-hours/ week and attend class one hour/week of related instruction. Instruction includes job readiness skill such as, resume preparation, interview techniques, test-taking skills, interpersonal skills, on-the-job problem-solving skills, conflict resolution methods, etc. Some SCROC courses are located on campus, but most courses are located at the SCROC Center in Torrance. A daily bus will transport students to and from the center for both the afternoon and evening programs free of charge.

Length of Course: One-four semesters

Prerequisite for Enrollment: Student must have a qualifying job of 10 hours/week.

Recommendation for Enrollment: Recommendation of Work Experience Coordinator, Linal Miller

Type of Course: Elective

Course Title: Internship Programs

Department: General

Grade Level: 11-12 grade

HIP (Northrop Grumman Corp)

Mattel Corp

Apprenticeships are a 16-week on-the-job training opportunities offered by various business partners in the community. Students train in a cross section of career areas found in local corporations such as, accounting, engineering, computer information technology, product design, fire safety and medical assistance, etc. Students develop job-hunting skills, networking skills, interpersonal skills, and presentation skills, to name a few. All students are responsible for a final presentation project.

Length of Course: One-four semesters

Prerequisite for Enrollment: 11-12 grades only

Recommendation for Enrollment: Students must successfully complete an application, resume, interview process.

Type of Course: Elective

Course Title: Media Assistant  
Department: General  
Grade Level: 11-12 grades

The Media Assistant is introduced to the use and care of multi media technology through the Instructional Resource Center. The assistant learns to create flyers, posters, and other layouts as requested by staff. The assistant also learns photocopying and collation processes.

Length of Course: One or more semesters

Prerequisite for Enrollment: Interest

Recommendation for Enrollment: Complete Student Assistant/Tutor Application with appropriate staff approval and signatures

Type of Course: Elective

Course Title: Teachers Assistant/Office Assistant  
Department: General  
Grade Level: 11-12 grades

The Teacher and Office Assistant will assist the teacher in the classroom or the office staff in the offices by answering phones, filing, photocopying, delivering messages, organizing materials, assisting students and/or parents, etc.

Length of Course: One or more semesters

Prerequisite for Enrollment: Good attendance

Recommendation of Enrollment: Complete Student Assistant/Tutor Application with appropriate staff approval and signatures

Type of Course: Elective

Course Title: Independent Study  
Department: ELECTIVE: Applied and Fine Arts, English, Foreign Language, Math, Science, Social Science  
Grade Levels: 11-12

An Independent Study Course (ISC) allows a student to study a topic or subject of personal interest which falls within credentialing parameters of the faculty and is not otherwise available. In conjunction with an instructor, the student is required to propose the structure of the course content to be studied and the method of assessment, subject to teacher and administrator approval. The essence of an ISC is that the student can engage in study independently and will meet with a supervisor weekly. Once approved, the proposal becomes a formal contract between the student and the instructor. The course will enable the student to develop the skills for self-initiated, self-directed study in a particular topic of interest. Students will study a particular topic of interest and have the opportunity to choose a topic not covered in formal courses.

In accordance with the mission of the El Segundo Unified School District, we are "... dedicated to providing students and the community with an optimum learning environment that prepares educated, productive, compassionate citizens to meet the challenges of a global society in the 21st Century." In particular, ESHS seeks to provide a diversity of delivery modes to provide for the varied needs and circumstances of the student population.

Length: One semester

Prerequisite for Enrollment: Instructor approval & mutually agreed upon topic of study; ability and desire to work independently; Administrative approval

Recommendation for Enrollment: Interest

Type of Course: Elective

# Physical Education

## **Course Title: General Physical Education**

Department: Physical Education

Grade Levels: 9-12

This is a stage at which students are able to synthesize much of what they have learned in the earlier grades, including human growth, development, and physiology. Individuals are able to coalesce as a team and focus on the needs and contributions of other team members beyond themselves. Students develop a willingness to acknowledge and respect stylistic differences in performance. The physical education program encourages students to gain an appreciation of others' achievements and to expand their ability to adapt to the needs of the group and demonstrate fairness toward all. Positive social interaction and constructive collaboration are emphasized throughout team sports. Students are capable of choosing the physical activities they want to pursue. They are more able to generalize from previous experiences and to apply biomechanical principles to the analysis of a variety of movement skills. There is also an emphasis placed on individual and dual activities, as well as a lifelong physical fitness component to the course. The physical education program will offer students a wide variety of opportunities. These opportunities include: flag football, soccer, volleyball, basketball, softball, billy ball, nation ball, indoor soccer, field hockey, tennis, paddle tennis, ultimate Frisbee, yoga, wiffle ball, jogging/running, aerobic conditioning, agility training, and exer-gaming. Students will learn, train for, and perform the California State physical fitness test, Fitnessgram, in the spring of each year.

Length: One year

Prerequisite for Enrollment: None

Recommendation: None

Type of Course: Meets physical education requirement for graduation

## **Course Title: Introduction to Physical Education (formerly Strength Training)**

Department: Physical Education

Grade Levels: 9-12

This course is designed to give students the necessary knowledge, skills and technique to successfully develop their strength and cardiovascular abilities in a safe environment. All students will engage in a program stressing weight training instruction, strength development and cardiovascular conditioning. A major focus of the class is developing the proper technique and understanding of the following core lifts: squat, front squat, power clean, hang clean, bench press, and snap. Cardiovascular component will include jump rope, plyometric box jumps, dot pad sequencing, sprints, and longer distance running.

Length: One semester

Prerequisite for Enrollment: Teacher/Coach recommendation

Recommendation: A strong desire on the part of the student to participate in a sport at the high school level or to learn and perform strength training skills to improve strength and flexibility.

Type of Course: Meets physical education requirement for graduation.

**Course Title: Elective Basketball (Spring Semester Only)**

Department: Physical Education

Grade Levels: 9-12

This is a comprehensive course in the rules, fundamentals, history, and organization of skills required for team play. Sportsmanship and positive social interaction are important class requirements. Competitive games, activities and drills are used to demonstrate game-like conditions. The course is open to all students but is geared toward the competitive basketball player who is trying to qualify for, or is already playing for a team.

Length: One semester

Prerequisite for Enrollment: Teacher/Coach recommendation

Recommendation for Enrollment: A strong desire on the part of the student to participate in a rigorous level of play.

Type of Course: Meets physical education graduation requirement.

**Course Title: Volleyball**

Department: Physical Education

Grade Levels: 9-12

This is a comprehensive course in the fundamentals, rules, conditioning aspects and team dynamics for the sport of indoor volleyball. Class is designed to give students and appreciation of the physical nature and social interaction of this team sport.

Fundamentals and proper technique will be stressed to create a solid background for the recreational player. All skill-leveled players are welcome to participate. Opportunities for advanced players to “peer coach” will be given. Competitive tournament-style play will be used during the course as well. This course, like all physical education classes, requires vigorous fitness conditioning and aerobic training. Students will learn, train for, and perform the California state physical fitness test, Fitnessgram, in the spring of each year.

Length: One semester

Prerequisite for Enrollment: None

Recommendation for Enrollment: A strong desire on the part of the student to participate in the specialized sport of volleyball.

Type of Course: Meets physical education graduation requirement.

**Course Title: Surfing (Fall Semester Only)**

Department: Physical Education

Grade Levels: 9-12

This course is designed to give students the necessary background to successfully compete at the high school level on the surf team. In surfing, students will build upon competent swimming skills in many ocean conditions. Students will become proficient in paddling, timing, balance, and learn ocean lifesaving skills. Students will also learn competitive aspects of the sport, how to work as a team, and about the culture and history of surfing. The course stresses building self-confidence in water conditions with the intention that students will become mentors to beginning surf students at some point during their high school career as well as compete as members of the surf team.

Length: One semester

Prerequisite for Enrollment: Must be a competent swimmer.

Recommendation for Enrollment: A strong desire on the part of the student to participate in a sport at the high school level.

Type of Course: Meets physical education graduation requirement.

**Course Title: Pre/Post-Sport (6<sup>th</sup> Period Only)**

Department: Physical Education

Grade Levels: 9-12

Although this course is designed for those athletes that need a PE class for part of a semester, pre or post their season of sport, or a fall semester of physical education so they do not have to change their academic schedule for the year. It is a general physical education class with all of the same requirements. See “General Physical Education” for the basic description of this course offering.

Length: One semester (or portion of a semester)

Prerequisite for Enrollment: Students who make an athletic team roster, and still need physical education credits (typically 9<sup>th</sup> and 10<sup>th</sup> grades)

Recommendation for Enrollment: A strong desire on the part of the student to physically prepare for their season of sport.

Type of Course: Meets physical education graduation requirement.

ATHLETICS

Students interested in the following sports, must satisfy the identified prerequisites.

Fall Sports

PE/Football

PE/Girls Volleyball Team

PE/Girls Tennis Team

PE/Boys Water Polo Team

PE/Boys and Girls Cross Country

Winter Sports

PE/Boys Basketball Team

PE/Boys Soccer Team

PE/Girls Water Polo Team

PE/Girls Soccer

PE/Girls Basketball Team

Spring Sports

PE/Boys Swimming Team

PE/Girls Swimming Team

PE/Boys and Girls Track

PE/Baseball Team

PE/Softball Team

PE/Boys Tennis

PE/Boys Volleyball

Prerequisites:

## 1. Tryouts

Apply one month prior to the beginning of each sport season (see calendar)

## 2. Coach Recommendation

## 3. Attend Parent/Guardian Informational Meeting and complete Athletic Packet

Doctor's physical release

Emergency procedure card

Transportation fee: \$100.00 for each sport

ASB donation: \$85.00

Athletic Contract signed by both parent/guardian & student

## 4. 2.0 grade point average

## 5. Shoes and personal articles of clothing/uniforms appropriate to the activity.

Other costs will be incurred for items required for a sport. The level of this expense primarily depends on the market price for the quality of items selected by the Coach in counsel and support of the students and their parents. Every effort is made to keep the expense to a minimum.

Parents/Guardians should be reminded that safe athletic shoes alone can cost from \$50 to \$70. The expense of many of the items needed to be purchased for participation in a sport depends on the quality selected by the parent/student. A conservative estimate of the normal expenses for each sport is available upon request.

## 6. Substantial time commitment outside of the regular school schedule is required Summer Programs

Certain sports run summer programs in conjunction with their teams. Students enrolled in these summer programs may receive college credit from El Camino. Check with the coach or Athletic Director for details.

Calendar

Fall Sports Late August to mid-November

Winter Sports Early November to mid-February

Spring Sports Mid-February to mid-May

All Seasons Spirit Activities are all year