

**KNIGHT HIGH SCHOOL
COURSE DESCRIPTION
CATALOG
2021-2022**



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GRADUATION REQUIREMENTS

The minimum requirements for graduation from high school as adopted by the Board of Trustees of the Antelope Valley Union High School District are as follows:

REQUIRED SUBJECTS

English 9, 10, 11, 12 40 Credits (4 years) Mathematics (must include Algebra 1 or higher) 30 Credits (3 years) Science (Physical & Life Science required) 20 Credits (2 years) Social Science 30 Credits (3 years) Including: World History (10th grade/10 credits/1 year)

United States History (11th grade/10 credits/1 year) Civics/Economics (12th grade/10 credits/1 year)

Visual and Performing Arts or Foreign Language 10 Credits (1 year) Healthful Living 10 Credits (1 year) Physical Education (required for 9th and 10th grades) 20 Credits (2 years) Electives 70 Credits

TOTAL UNITS OF CREDIT REQUIRED FOR GRADUATION: 230 UNITS MINIMUM

MINIMUM PROFICIENCY STANDARDS:

In accordance with California Education Code, students must pass Algebra 1 or a higher level math class in order to receive a high school diploma.

CLASSROOM CITIZENSHIP REQUIREMENTS:

1. If a student receives more than three "U" grades he/she shall be ineligible for school activities for the quarter following that grading period. There will be no makeup for the "U" in citizenship.
2. A senior must meet citizenship eligibility requirements in the final two quarters of their senior year in order to participate in graduation ceremonies. Administration reserves the right to deny participation in graduation ceremonies, per board policy, to students with significant discipline concerns.

ATHLETICS/ACTIVITIES ELIGIBILITY

1. Students must have at least a "C" Grade Point Average (2.0 GPA) as of the last quarter.
2. Student must have a satisfactory citizenship grade (no more than two "U" grades) in a grading period.

ASSOCIATED STUDENT BODY OR CLASS OFFICE ELIGIBILITY

1. Students must maintain a 2.5 GPA.
2. Students must have a satisfactory citizenship grade (no more than two "U" grades) in a grading period.

University of California

Subject Requirements A-G

A - History/Social Science - 2 years required

Two years of history/social science, including one year of World History, Cultures and Geography; and one year of U.S. History or one-half year of U.S. History and one half year of Civics or American Government.

B - English - 4 years required

Four years of college-preparatory English that include frequent and regular writing, and reading of classic and modern literature. Not more than two semesters of ninth-grade English or no more than one year of ESL-type courses can be used to meet this requirement.

C - Mathematics - 3 years required, 4 years recommended

Three years of college-preparatory mathematics which include the topics covered in Elementary and Advanced Algebra and two- and three-dimensional Geometry. Approved Integrated Math courses may be used to fulfill part or all of these requirements, as may math courses taken in the seventh and eighth grades that your high school accepts as equivalent to its own math courses.

D - Laboratory Science - 2 years required, 3 years recommended

Two years of laboratory science providing fundamental knowledge in two of these three core disciplines: Biology (which includes Anatomy, Physiology, Marine Biology, etc.), Chemistry and Physics. The final two years of an approved three-year integrated science program may be used to fulfill this requirement. Not more than one year of ninth-grade laboratory science can be used to meet this requirement.

E - Language Other than English - 2 years required, 3 years recommended

Two years of the same language other than English. Courses should emphasize speaking and understanding, and include instruction in grammar, vocabulary, reading, composition and culture. Courses in a language other than English taken in the seventh and eighth grades may be used to fulfill part of this requirement if your high school accepts them as equivalent to its own courses.

F - Visual and Performing Arts (VPA) - 1 year required

Two semesters of approved arts courses from a single VPA discipline: Dance, Drama/Theater, Music or Visual Art.

G - College Preparatory Electives - 1 year required

One year (two semesters), in addition to those required in "a-f" above, chosen from the following areas: Visual and Performing Arts (non-introductory level courses), History, Social Science, English, Advanced Mathematics, Laboratory Science and language other than English (a third year in the language used for the "e" requirement or two years of another language).

BEHAVIORAL SCIENCE DEPARTMENT

HEALTHFUL LIVING

Open to Grade: 9

Prerequisite: None

Healthful Living is a general health class based on the philosophy that both prevention and rehabilitation are important to lifelong wellness. The course offers enriching experiences for the pupil to recognize the extensive techniques available to deal with teenage experiences such as low self-esteem, stress, peer pressure, substance use and abuse, teenage sexuality, and decision-making leading to constructive life goals. Additional health subjects, such as character development, nutrition and eating disorders, diseases, personal relationships, human reproduction, sexually transmitted diseases, and child abuse, are taught with the emphasis on the practical aspects of adjusting healthfully to life experiences. Focus on study skills and career exploration are integrated specifically for topics pertaining to this class, as well as creating a foundational support system for cross curricular academic studies with the goal of developing and maintaining a desire for life-long learning for personal and social development. Students are encouraged to discuss the various healthful living topics with their families.

PSYCHOLOGY

Open to Grades: 11, 12

Prerequisite: None

Meets UC/CSU requirements

This course introduces the field of psychology and its basic concepts, theories, research methods, and contributions to the understanding of human behavior. Topics include the nervous system, perception, motivation, learning and memory, social behavior, personality, developmental, and clinical psychology. The past and current theories and contributions of major psychologists are explored. Primarily a lecture-based course, other methods in the course include discussions, projects, and classroom activities.

PSYCHOLOGY AP

Open to Grades: 11, 12

Prerequisite: Teacher Recommendation

Meets UC/CSU requirements

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Primarily a lecture-based course, other methods in the course include discussions, projects, and classroom activities.

CRIMINAL JUSTICE

Open to Grades: 11-12

Meets UC/CSU requirements

This course is designed for students to examine criminal law, the distinction between various categories and types of crimes, the legal procedures involved and the punishments. Students will begin by studying the development of our law. In this course, students will also analyze various cases as they relate to the topic being discussed. This course of study is intended to provide students with a better understanding of the law and its place in our society and its effect on each of us. Students will gain knowledge of each citizen's responsibility in a democratic community.

Digital Design and Engineering Academy

The Digital Design and Engineering Academy represents a high school reform movement that is focused on smaller learning communities with a career theme. In addition, the academy offers postsecondary and career emphasized field trips, industry mentors, after school activities, and experiential internships. Our students are prepared for smooth transitions into colleges, universities, trade schools, apprenticeships, certificate programs, or direct employment in the engineering and design sector. The initial driving force behind the creation of our academy came in response to two simultaneous needs that are well met by the academy model: market demand for highly skilled workers in this region who are "home grown" and not adverse to living in the desert climate, and a local need in the high school to find ways to better engage and motivate students who are at-risk. The hands-on, job related, focused approach of an academy that marries CTE concepts with core subjects through linked learning has met both of our areas of need to create an academy that is successful. Emphasis is placed on aircraft design efficiency, alternate fuels, solar energy, wind energy, and materials to allow students to go beyond concepts to direct experience allowing for better career transitions in areas like environmentally responsible aviation engineers and clean technology marketing strategies. Students will follow distinct career pathway choices as well as core classes that support those pathways. Career choices include on the Engineering side of the academy: Mechanical engineering, Aerospace engineering, Wind turbine Engineers, Solar Thermal Energy Engineers, Biofuel and Chemical Engineers. Career options for the Digital Design side of the academy: Clean Technology advertisement, promotion, public relations, and marketing, Video and Broadcasting Production, Graphic Design (Book and magazine Layouts, business logos and advertisement), Fashion and Room Design, Video Game Design, Web Design, Computer Generated Animation for the Entertainment Industry including 2D Animation, and Simulation software development (for Business, Military, Law, Science, and Medical Industries).

MULTIMEDIA CONTEMPORARY DESIGN I

Open to Grades: 9-12

Prerequisite: Basic computer skills.

Meets UC/CSU requirements

You do not need to be in the academy to take this course. It is the beginning class for careers in animation, design, game development, film production. This course will introduce students to digital design. Upon completion of this course, students should be able to create fashion, room and car illustrations for their portfolios Animation in 2-D format and its application in current industries will be an integral part of the class. Introduction to 3-D format background and character development will be incorporated, as well. In addition, other forms of multimedia will be explored including film analysis and rudimentary shot techniques using video cameras and digital photography. This integrated curriculum forms a solid groundwork from which students may build upon in Multimedia Contemporary Design II and is the first sequence of classes in the Interactive Media Technology Pathway.

MULTIMEDIA CONTEMPORARY DESIGN II

Open to Grades: 10-12

Prerequisite: Multimedia Contemporary Design I or permission of Mrs. Garmon Meets UC/CSU requirements

You do not need to be in the academy to take this course. This is the second year course for Multimedia Contemporary Design I. Learn advanced 2D animation. Explore the world of 3D, Learn how to make the background and characters for the games you want to create. Learn to produce graphic designs for all types of industries including fashion, room design, and product design. Whatever, you would like to do for a career. game design, fashion design, car design, graphic design, animation, this class will help you hone your skills for it.

WEB MANAGER/DESIGN I (Multimedia Contemporary Design 1)

Open to Grades: 9-12

Prerequisites: Students with previous Web Design credits welcomed.

Web Design investigates the concepts and techniques that are essential to planning, creating, testing, publishing, and maintaining Websites. Challenging hands-on activities build Web research skills and design awareness, and encourage critical thinking about current Web design. Students will learn basic html structure and formatting, web page creation using Macromedia Dreamweaver, and image creation and alteration using Adobe Photoshop and Flash. This class explores digital image creation and manipulation as an important skill set that enables beautiful websites using graphic design, print design, and digital photography.

INTRODUCTION TO FILM AND VIDEO THEORY

Open to Grades: 9-12

Prerequisite: None

Single Period Course

Meets UC/CSU requirements

This is a general film appreciation class. It will introduce you to the basics of film production, narrative, style, editing, performance, sound, theory, and analysis, among other things. It will also expose you to a variety of films produced in the U.S. and other

countries from the very beginnings of the medium in the 1890s, through the so-called "silent era" of the 1910s-20s and the "golden age" of Hollywood in the 1930s-50s, up to the present, including some films in foreign languages with English subtitles. We will be viewing a wide range of films to see how they function as commercial/entertainment/artistic artifacts.

DIGITAL VIDEO AND BROADCASTING (Audio Production/ DJ Sound Mix) Open to Grades: 10-12

Single-Period Course

Meets UC/CSU requirements

Prerequisite: Introduction to Film and Video Theory

This is a 2nd level course that trains students regarding concepts and principles used in film and video production. Students will learn historical perspectives and analyze American film and television from a variety of artistic works. The course exposes students to the basics of digital storytelling through the creation of storyboards, script writing, basic shot types, camera movements, lighting, audio and techniques of editing.

DIGITAL MEDIA AND GRAPHIC DESIGN

Open to Grades: 10-12

Double-Period Course

Meets UC/CSU requirements

Prerequisite: INTRODUCTION TO FILM AND VIDEO THEORY, DIGITAL VIDEO AND BROADCASTING, or instructor approval.

This course provides instruction and training for students interested in careers related to video production and post-production. Students who achieve competency in this course will develop knowledge and skills in principles and elements of video production and post-production, both from the theory, performance and technical aspects, and will be prepared for entry-level employment. Entry-level positions include video equipment technician, assistant editor, production supervisor, and assistant producer. This Advanced Film and Video Production course introduces students to digital video cameras, computers and related software to edit and apply effects. Students study the theoretical aspects through the variety of reading and multimedia materials, as well as work on a variety of projects including commercials, documentaries, music videos and personal/historical biographies.

AP COMPUTER SCIENCE A

Open to Grades: 11-12 (10th by permission of Mrs. Baxter)

Prerequisite: Basic computer skills

Meets UC/CSU requirements

AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design

using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems

YEARBOOK

Open to Grades: 9-12

Prerequisite: Must be selected through an application process. Applications will be online late Spring. Visit the school website for information.

Yearbook members are responsible for accurately covering the major school events and functions. They must also create a publication that the student body can cherish for a lifetime. This course is an elective that requires a commitment. Students are requested to attend after school meetings during the course of the year. The course involves layout design, writing, and editing, computer/graphic design using InDesign and Photoshop. The course emphasizes responsible work habits while allowing the young journalist the opportunity to learn and grow through this hands-on process. Students learn more than yearbook fundamentals, they learn: time management, become self starters, delegate responsibility, demonstrate knowledge, share resources, and motivate co-workers.

PROJECT LEAD THE WAY ENGINEERING PATHWAY

INTRODUCTION TO ENGINEERING DESIGN HONORS

Open to Grades 9-12

Prerequisites: Requires concurrent enrollment in college preparatory math course (Algebra 1, Geometry, Algebra 2, or higher)

Meets UC/CSU requirements

This project base course teaches problem-solving skills using a design development process. Students learn to make visual representations of their product solutions by hand and using Autodesk Inventor, a solid modeling computer software. Students keep a portfolio of their work and at the completion of each project present their final design to the class. Most projects end at the design stage, but some will actually be built in class. Students are also introduced to engineering related careers.

DIGITAL ELECTRONICS HONORS

Open to Grades 9-12

Requires Project Lead the Way application

Pre-Req: Intro. To Engineering Design or instructor approval and successful completion of Algebra1.

Meets UC/CSU requirements

Digital Electronics is one of the foundation courses in the Project Lead The Way Engineering Program. Students use computer simulation to learn about the logic of electronics as they design, test, and actually construct circuits and devices.

PRINCIPLES OF ENGINEERING HONORS

Open to Grades 10-12

Prerequisites: Requires concurrent enrollment in college preparatory math course (Algebra 1, Geometry, Algebra 2, or higher)

Meets UC/CSU requirements

In this course students explore various technology systems such as simple machines, electrical systems, and control systems. They study motion and forces. They also learn about the properties, manufacturing and testing of various materials. Students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes discussion about consequences of technological change. Example projects include building a ping-pong ball launcher, constructing bridges, and creating a device that will sort marbles.

AEROSPACE ENGINEERING HONORS

Open to Grades: 11-12

Prerequisites: Successful completion of at least 1 Engineering course and/or instructor approval.

Meets UC/CSU requirements

Through hands-on engineering projects developed with NASA, students learn about aerodynamics, astronautics, space-life sciences, and systems engineering. This includes making gliders, testing airfoils in a wind tunnel, launching model rockets and programming intelligent robots.

ENGINEERING DESIGN AND DEVELOPMENT

Open to Grades: 11-12

Prerequisites: Successful completion of at least 1 Engineering course and/or instructor approval.

Meets UC/CSU requirements / Online course

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. This course is appropriate for 12th grade students.

ENGLISH DEPARTMENT

ENGLISH 9

Required class for 9th graders

Prerequisite: None

Meets UC/CSU requirements

At the beginning level of high school English, students, through the study of literature, develop skills in higher order reading comprehension, language usage and writing, literary analysis, critical thinking, speaking and listening, and academic research. The difference between English 9 and subsequent English courses lies in the length, complexity, sophistication and range of course materials.

ENGLISH 9 HONORS**Replaces English 9**

Prerequisites: None. Summer Reading Assignment is required.

Meets UC/CSU requirements

While this course covers the same content standards as required in English 9, it is designed for students who seek academic rigor through higher level analysis, critical thinking and synthesis of the text. The units of study are project-based or theme-based, with an emphasis on essay development and format.

ENGLISH 10**Required class for 10th graders**

Prerequisite: English 9

Meets UC/CSU requirements

At the second level of high school English, students, through the study of literature, develop skills in higher order reading, comprehension, language usage and writing, literary analysis, critical thinking, speaking and listening, and academic research. The difference between English 10 and subsequent English courses lies in the length, complexity, sophistication and range of course materials.

ENGLISH 10 HONORS**Replaces English 10**

Prerequisites: English 9 Honors or teacher/guidance counselor placement, ability to read above grade level and a grade of A or B in English 9. Summer reading/assignment will be required.

Meets UC/CSU requirements

At the second level of high school English, students, through the study of fiction and informational texts develop skills in reading comprehension, language usage and writing, literary analysis, critical thinking, speaking and listening, and rhetoric. This course is designed to prepare students for AP English Language and Composition.

ENGLISH 11**Open to Grade 11**

Prerequisite: None

Meets UC/CSU requirements

In English 11, students continue to develop and refine essential skills in reading, writing, speaking and listening. Through the study of core works of American fiction, nonfiction, public documents and technical texts, students will develop proficiency in reading for a variety of purposes. By interpreting and creating texts in response to the literature, students will come to understand, participate in, and contribute to a common literary and cultural heritage. Students will learn to analyze texts from the literature and the real-life world (such as newspapers, journals, and essays) and cogently express applications to their own lives through writing and speaking. By applying and generating technical texts, students will develop competencies that will prepare them for life in the workplace. Additionally, they will exercise and refine their abilities to speak to different audiences for a variety of purposes. The difference between English 11 and subsequent courses lies in the length, complexity, sophistication, and range of source materials.

LANGUAGE & COMPOSITION AP (ENGLISH 11 AP)

Open to grade: 11

Prerequisite: Recommendation of current English/Language Arts Teacher and Summer Reading Assignment is required.

Meets UC/CSU requirements

The English Language and Composition course is organized according to the requirements and descriptions of the current AP English Course Description. It is open to students in grade 11 who wish to undertake a rigorous and challenging study of the elements of language and how they relate to rhetorical analysis and advanced essay writing. Students will become skilled readers of a variety of prose, primarily non fiction, from a wide variety of periods, disciplines, and genres. Through close reading students will learn to identify values and assumptions that underpin the author's use of various rhetorical figures and devices of exposition. While a solid basis in English grammar is assumed, students will delve into elements of English language, as well as rhetoric and logic to become better writers. Students are expected to complete a summer assignment in preparation for this course. Standards for this class are set by the College Board, based off the freshman composition course in college.

ENGLISH 12

Open to grade: 12

Prerequisite: None

Meets UC/CSU requirements

In English 12, students continue to develop and refine essential skills in reading, writing, speaking and listening. Through the study of core works of world fiction, nonfiction supplementary and technical texts, students will develop proficiency in reading for a variety of purposes. By interpreting and creating texts in response to the literature, students will come to understand and appreciate their shared humanity. Students will learn to analyze texts from the world of literature and the real-life world (such as newspapers, journals, and essays) and cogently express applications to their own lives through writing and speaking. By applying and generating technical texts, students will develop competencies that will prepare them for life in the workplace. Additionally, they will exercise and refine their abilities to speak to different audiences for a variety of purposes. The difference between English 12 and

previous English courses lies in the length, complexity, sophistication, and range of source materials.

ENGLISH 12 ETHNIC CULTURES

Open to grade: 12

Prerequisite: Successful completion of English 11

English 12 World Cultures is a rigorous college preparatory course designed to ensure college success. Students read novels, short stories, drama, poetry, and nonfiction works, with an emphasis on world literature. They analyze literary works with a critical eye, forming opinions based on evidence. They expand vocabulary and listening and writing and speaking skills within the context of literature. They write with a clear voice and understanding of the audience and draw conclusions based on research. They produce a variety of writings, including readings of logs and journals, scripts, short stories, poems, and autobiographical, reflective, persuasive, cause and effect, compare and contrast, research, and synthesis essays.

LITERATURE & COMPOSITION AP (ENGLISH 12 AP)

Open to grade: 12

Prerequisite: Recommendation of current English/Language Arts Teacher and Summer Reading Assignment is required.

Meets UC/CSU requirements

Through a study of English and Continental literature from the 16th century to the present, the student will refine skills of literary analysis and criticism, writing, speaking, listening, academic research and close reading for meaning and significance. Students will read extensively from a wide variety of literary works, some of which are taught in college-level English courses. Regular in-depth discussion, analysis and interpretation of challenging works will lead the student to an enriched understanding of our common cultural heritage with peoples of the world. This course is also designed to prepare the student to achieve success on the Advanced Placement Examination in English Literature and Composition administered by the College Board.

THE BIBLE AS LITERATURE

English 12 (Bible and Literature)

Open to Grade: 12

Prerequisite: Must have a "C" or better in English 11

Meets UC/CSU requirements

If you would like to take a class that delves into the mysterious lives and circumstances of those who dared to change the world they lived in and succeeded in doing so, and that seeks to answer age old questions, this is the class for you! This class will approach the Bible from a social, historical, and literary perspective.

You will learn the importance of the Bible to the development of western culture and literature, as well as the depth and complexity of religious, psychological, and cultural themes and insights in the Bible. This class is a Senior English class. Feel free to stop by room 115 to speak with Ms. Roth about the class!

ETHNIC LITERATURE

English 12 (Ethnic Lit)

Open to: Grade: 12

Prerequisite: English 9, English 10, English and English 11

Meets UC/CSU Requirements

Students in Ethnic Literature will continue to develop and refine essential skills in reading, writing, speaking and listening. The curriculum will consist of a variety of core works that will allow students to gain an appreciation, understanding, and knowledge of literature from the theoretical approach of ethnicities and the social roles within them. Through the study of core literature, as well as supplementary and technical texts, students will develop proficiency in reading and interpreting for a variety of purposes as well as a study of societal and cultural norms in reference to different cultures. Students will critically analyze a variety of core literary works and real-life sources (such as newspapers, scholastic publications, professional journals, and essays) and clearly express applications to their own lives through writing and speaking.

EXPOSITORY/ READING and WRITING PROGRAM

Open to grade: 12

Meets UC/CSU requirements

The major purpose of this course is to prepare students for the literacy demands of college and the world of work. Through a sequence of fourteen rigorous instructional modules, students in this year long, rhetoric-based course develop advanced proficiencies in expository, analytical, and argumentative reading and writing. The cornerstone of the course—the assignment template—presents a process for helping students read, comprehend, and respond to non-fiction and literary texts. Modules also provide instruction 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. professional-looking news outlet for the school. Using online media platforms exclusively, students will create both static and dynamic content while writing feature stories and covering events as they occur live. Students will become familiar with feature, editorial, investigative, and narrative writing, and will experiment with blogging and video, photojournalism, and social media broadcasting, all through hands-on, project-based learning. This course requires a commitment beyond the classroom which may include after school meetings, events, and fundraisers, as well an exceptional amount of work to be done outside of class. Students are expected to be self-starters, responsible, and possess excellent writing skills as the course is writing intensive with strict deadlines.

CREATIVE WRITING

Open to grade: 9-12

Prerequisite: Must have a “C” or better in previous English Class

Meets UC/CSU requirements

Creative Writing is an elective course designed to introduce students to the composition of poetic, narrative, and dramatic forms of writing. Students will practice writing poems, prose, short stories, novels, creative nonfiction narratives/memoirs, and dramatic scenes. Students will also analyze published works in the various genres.

LITERACY SUPPORT I

Open to grade: 9

A course designed to address the academic needs of students who score far below and below basic on the California State Standards test. Read 180, a reading intervention program, is used to diagnose, monitor and assess student progress throughout the school year.

LITERACY SUPPORT II

Open to grade: 10

Literacy Support II is a class designed to provide additional support in Language Arts for students who score below basic on the California State Standards Test. Using the Holt Supplemental materials, students receive additional instruction in reading, writing, grammar, spelling and literary response and analysis. This class is available to ninth and tenth grade students.

ENGLISH LANGUAGE DEVELOPMENT (ELD)

English credit is given for Beginning and Early Intermediate ELD. It is a two period class. The first period counts as English credit and the second period is an elective class. Students must be enrolled in both classes.

EL is a course for students whose primary language is not English and whose English skills are below level 3 (Intermediate) on the CELDT (Calif. English Language Development Test). EL addresses student needs in self-esteem, adjusting to American culture, and in understanding, speaking, reading, and writing Standard American English.

BEGINNING ELD: Through language experience and other natural approach activities, students will experience instructional activities that integrate language and culture. Students will participate in basic conversations, and will generate simple sentences and short paragraphs.

EARLY INTERMEDIATE ELD: The students will acquire skills needed for conversing and writing in English. Students will write a paragraph demonstrating knowledge of Standard English grammar, punctuation, and tense. Through a study of literature and the core curriculum, students will increase comprehension skills.

WORLD LANGUAGE DEPARTMENT

ITALIAN 1

Open to Grades: 9-11

Prerequisite: Enrolled in grade level English course

Meets UC/CSU requirements

This is an introductory course that offers an exciting combination of linguistic, literary and cultural experiences. Students will develop listening, speaking, reading, and writing skills in Italian. Besides offering a beginning look at a range of Italian literature, the course also offers an approach to Italian civilization through film, through folklore, and through linguistic history and dialectology. This course fulfills one year of the two year UC or CSU Foreign Language requirement.

ITALIAN 2

Open to Grades: 10-12

Prerequisites: Recommend a grade of “C” or better in Italian 1 or Teacher approval.

Meets UC/CSU requirements

This course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

ITALIAN 3

Open to grades:11-12

Prerequisite: Recommend a grade of “C” or better in Italian 2 or Teacher approval

Meets UC/CSU requirements

This course builds on the principles taught in Italian 2 in order to develop speaking, reading, listening, and writing skills further. The course expands on grammar topics including past tenses, commands, and idiomatic expressions. Students learn about Italian history and culture. Students read selected literature to increase reading comprehension skills.

ITALIAN 3 HONORS

Open to grades: 11-12

Prerequisite: Recommend a grade of “B” or better in Italian 2 or Teacher approval

Meets UC/CSU requirements

This is an honors course that emphasizes advanced communication in all language modes. Instruction is based on authentic texts and situations and includes global

issues, cultural connections, fine arts, and literature. This is an intensive course that covers two semesters of intermediate Italian and prepares students for advanced language and literature study. The grammar, reading, writing, and conversation is drilled to a mastery level. Students enjoy an exploration of challenging literary and cultural materials. This course is recommended for students planning to enroll in Italian AP the following year.

ITALIAN LANGUAGE AP

Open to grades: 12

Prerequisite: Recommend a grade of “B” or better in Italian 3H or Teacher approval

Meets UC/CSU requirements

The AP Italian Language and Culture course is a rigorous course taught exclusively in Italian and emphasizes advanced communication in all language modes. Instruction is based on authentic texts and situations and includes global issues, cultural connections, fine arts, and literature. This is an extremely challenging course that covers two semesters of advanced Italian and prepares students for the advanced placement language and culture exam. The grammar, reading, writing, and conversation is drilled to a mastery level.

SPANISH 1

Open to Grades: 9-12

Prerequisite: Enrolled in grade level English course

Meets UC/CSU requirements

Spanish 1 presents the basics of the Spanish language. Students learn greetings, verb conjugations, basic vocabulary, pronunciation, and grammatical structures and get a glimpse of the customs, culture, and geography of the Spanish-speaking world as a mission field. Students develop a beginning reading and conversational ability, laying the foundation for further study of the language. The course emphasizes understanding and practical application rather than rote memory. Students should have a basic understanding of English grammar before beginning this course.

SPANISH 1 HONORS

Open to Grades: 9-12

Prerequisite: Enrolled in grade level English course

Meets UC/CSU requirements

This course presents the basics of the Spanish language. Students learn greetings, verb conjugations, basic vocabulary, pronunciation, and grammatical structures and get a glimpse of the customs, culture, and geography of the Spanish-speaking world. Students develop and expand reading and conversational ability, laying the foundation for further study of the language. The course emphasizes understanding and practical application. Students should have a basic understanding of English grammar

before beginning this course. This class is recommended for Spanish speakers who haven't yet studied Spanish formally. Class is conducted mainly in Spanish.

SPANISH 2

Open to Grades: 9-12

Prerequisites: Recommend a grade of “C” or better in Spanish 1 or teacher approval.

Meets UC/CSU requirements

Spanish 2 builds on the foundation of Spanish 1. Students learn to communicate in everyday situations, such as in schools, restaurants, stores, hotels, doctor's offices, banks, airports, and at sporting events. They learn key grammatical principles including reflexive verbs, direct and indirect object pronouns, and preterit and imperfect tenses.

SPANISH 3

Open to Grades: 9-12

Prerequisites: Recommend a grade of “C” or better in Spanish 2 or teacher approval.

Meets UC/CSU requirements

Spanish 3 builds on the principles taught in Spanish 2 in order to develop speaking, reading, listening, and writing skills more fully. The course expands on key grammatical points including past tenses, perfect tenses, commands, and the subjunctive mood. Students learn about the civilizations of both Spain and Latin America. Students read selected literature in order to sharpen their comprehension skills.

SPANISH 2 HONORS

Replaces Spanish 1 and 2 for Spanish Speakers

Open to Grades: 9-12

Prerequisites: Should be fluent in Spanish, students must be able to converse in Spanish. Teacher/guidance counselor approval, and placement based on test scores.

Meets UC/CSU requirements

This course is designed to expand and build upon existing listening, speaking, reading, and writing skills in Spanish. Students will review grammar, read and write extensively, give oral presentations, and participate in debates. This course is for Spanish speakers based on assessment or teacher recommendation. This course fulfills the second year of the UC or CSU Foreign Language requirement.

SPANISH LANGUAGE AP

Open to Grades: 9-12

Prerequisites: Recommend a grade of “C” or better in Spanish 3, Spanish 2 for Spanish Speakers or teacher approval also, willingness to take the Spanish Language AP exam. There is a fee for the AP exam.

Meets UC/CSU requirements

The AP Spanish Language and Culture course is a rigorous course taught exclusively in Spanish that requires students to improve their proficiency across the three modes of

communication in 6 global themes. The course focuses on the integration of authentic resources including online print, audio, and audiovisual resources, as well as traditional print resources that include literature, essays, and magazine and newspaper articles with the goal of providing a rich, diverse learning experience. The themes are Global Challenges, Beauty and Aesthetics, Families and Communities, Personal and Public Identities, Contemporary Life, and Science and Technology. Students communicate using rich, advanced vocabulary and linguistic structures as they build proficiency in all modes of communication toward the pre-advanced level.

SPANISH LITERATURE AP

Open to Grades: 9-12

Prerequisites: Recommend a grade of “C” or better in Spanish 3, Spanish 2 Honors or teacher approval also, willingness to take the Spanish Literature AP exam. There is a fee for the AP exam.

Meets UC/CSU requirements

The AP Spanish Literature course is designed to provide students with a learning experience equivalent to that of a third-year college course in Peninsular and Latin American literature. The course is designed to introduce students to the formal study of a representative body of Peninsular and Latin American texts. The proficiencies acquired through the study of languages and literatures endow language learners with cognitive, analytical, and communication skills that carry over into many other areas of their academic studies. Readings are selected from 7 centuries of literature, including the Medieval and Golden Age, Eighteenth-Century, and Twentieth Century Literature.

MATHEMATICS DEPARTMENT

The KHS math department only offers math courses that are accepted for university admittance, along with support classes to help students successfully complete those courses. Remember, successful completion of Algebra 1 or a higher-level math course is required to earn a diploma. The KHS math department believes that students must have a firm grasp of Algebra before they begin their study of Geometry, so students will take Algebra 1 and 2 before they enroll in Geometry.

ALGEBRA 1

Open to Grades: 9–12

Prerequisite: None

Meets UC/CSU requirements

This gateway math course is based on the California Algebra 1 Standards. Algebra 1 is the foundation for all math courses. Successful completion of this course allows a student to proceed to Algebra 2. Freshman who either do not pass both semesters of Algebra 1, or pass both semesters with D's, will have to repeat the course their sophomore year. Students learn how to solve (and graph) equations and systems of

equations. Students use the quadratic formula and factoring to solve real life problems. Students also learn how to use all of the four math operations to solve problems with rational expressions. Algebraic properties are introduced throughout the course.

ALGEBRA 1 SUPPORT

Open to Grades: 9 (other grades with teacher approval)

Elective Credit

Prerequisite: Currently enrolled in Algebra 1

This course is designed to support students in their Algebra 1 class. Teachers use a variety of instructional strategies and activities to emphasize the work students are doing in their Algebra 1 class. Students also cover CAHSEE standards and review math concepts.

ALGEBRA 2

Open to Grades: 9–12

Meets UC/CSU requirements

Prerequisites:

- **Grade 9 – Completed an Algebra 1 program that covered systems of equations, radicals, exponents and solving quadratic equations, with a minimum grade of “B”, and have their 8th grade teacher’s recommendation.**
- **Grade 10 – Obtained a grade of “C” or higher in an Algebra 1 course. (Students who passed Algebra 1 with grades of less than “C” in either semester of Algebra 1 will be placed in an Algebra 2 course with smaller class sizes.)**
- **Teacher recommendation for grades 11–12.**

KHS offers two ways of completing Algebra 2. Both courses cover the same standards, and both take the same district tests.

- **Algebra 2 in a small class environment. Students who receive one “C” and one “D” in Algebra 1 are placed in an Algebra 2 class limited to approximately 25 students.**
- **Regular Algebra 2**

This math course is based on the California Algebra 2 Standards. Algebra 2 provides the math foundation for Geometry and Trigonometry/Pre-Calculus. Students learn how to solve (and graph) systems of equations. Students use the quadratic formula and factoring to solve real life problems. Students also learn how to solve logarithmic and exponential functions, as well as use complex numbers and the binomial theorem. Probability and Statistics are also introduced.

GEOMETRY

Open to Grades: 9–12

Meets UC/CSU requirements

Prerequisites: Grade 9 – Completed an Algebra 2 program, with a minimum grade of “B”. Grades 10 thru 12 – successful completion of Algebra 1 and 2.

This math course is based on the California Geometry Standards. It provides formal development for students who take advanced math courses. Students will use their algebraic skills to work with fundamental geometric concepts; such as logical proof, properties of points, lines, planes, angles, circles, triangles and polygons. Students will also learn how to determine the geometric measurements of perimeter, area and volume.

GEOMETRY/ TRIGONOMETRY

Open to Grades: 10, 11, and 12

Prerequisites: Grade of “A” or “B” in Algebra 2 and teacher / counselor recommendation.

Meets UC/CSU requirements

This course covers all of the essential topics of Geometry and Trigonometry / Pre Calculus in an advanced and accelerated manner. This course continues the development of mathematics introduced in Algebra 1 and Algebra 2. Geometric concepts are introduced early and receive attention for much of the year. A heavy emphasis is placed on trigonometry: trigonometric functions, their inverses, and graphs, along with applications. Practice in the fundamental skills of algebra, geometry, and trigonometry is provided while additional topics are introduced and practiced. Problem solving is an important part of this course. This course covers the essential California Geometry and all of the California Trigonometry Standards. Students receiving grades of “C” or higher may be recommended for Calculus AB--AP.

TRIGONOMETRY/ PRECALCULUS

Open to Grades: 11, 12

Meets UC/CSU requirements

Prerequisites: A grade of “C” or better in all semesters of Geometry and Algebra 2 or teacher / counselor recommendation.

Trigonometry topics include periodic functions, circular functions, graphs, identities, polar coordinates, complex numbers, and analytic geometry. Pre-Calculus topics include linear and quadratic functions, polynomial functions, exponents, and logarithms, vectors and determinants, sequences and series, and matrices. This course covers all of the California Mathematics Academic Standards (1998) for Trigonometry, Probability and Statistics, Math Analysis and Linear Algebra. Students receiving grades of “C” or higher may be recommended for Calculus AB, AP.

INTRODUCTION TO PROBABILITY AND STATISTICS

Open to Grade: 12

Prerequisites: Passing grade in Algebra 1 and teacher/ counselor recommendation.

Meets UC/CSU requirements

Introduction to Probability and Statistics is an introductory course to the tools of statistics. This basic course in statistics is to introduce students to statistical ideas and

their impact on everyday life and future fields of study. Students are exposed to four broad conceptual themes: Producing Data, Organizing Data, Chance and Inference.

STATISTICS AP

Open to grades: 11, 12

Prerequisites: “A” or “B” in Geometry and Algebra 2, or teacher/counselor recommendation and a willingness to take the AP Statistics exam. There is a fee for the AP exam.

Meets UC/CSU requirements

AP Statistics is an advanced placement course available to students who have successfully completed Algebra 2. This course prepares the student for the College Board Advanced Placement Statistics Test. Students who successfully complete this course and examination may receive credit for a one-semester introductory college statistic course. This non-calculus-based course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data.

STATISTICAL REASONING IN SPORTS

Open to Grades:

Prerequisites:

Meets UC/CSU requirements

This course teaches students how to use four-steps of the statistical process in the context of sports: ask questions, collect data, analyze data, and make conclusions. Each chapter will have a sports-related statistical question (e.g. Is there a home field advantage in the NFL?) and then students will learn how to collect appropriate data, how to analyze the data, and how to make reasonable conclusions. Although the context of the examples and exercises will be sports related, the primary focus of the class will be to teach students the basic principles of statistical reasoning. Major statistical topics include: analyzing distributions of univariate and bivariate data, both categorical and numerical, using graphs and summary statistics; correlation and least squares regression; using simulations to estimate probability distributions; theoretical probability distributions, including binomial and normal distributions; rules of probability, including conditional probability and expected value; the logic of hypothesis testing, including stating hypotheses, calculating and interpreting p -values, drawing conclusions, and Type I and Type II errors; using confidence intervals to estimate parameters; and proper methods of data collection, including sampling and experimentation. Use of technology, including online applets and the graphing calculator will be prominent in this course. Throughout the course, students will complete investigations that require students to complete the four-step statistical process using athletes of their choice.

CALCULUS AB-AP

Open to Grades: 11, 12

Prerequisites: Completion of Geometry/ Trig with a “C” or better or teacher/counselor recommendation and a willingness to take the Calculus AP exam. There is a fee for the AP exam.

Meets UC/CSU requirements

AP Calculus is an advanced placement course available to students who have successfully completed trigonometry. This course introduces students to both differential and integral calculus. This course prepares students for the College Board Advanced Placement Calculus Test. Students who successfully complete this course and examination may receive credit for a one-semester course in introductory college calculus.

CALCULUS BC-AP

Open to Grade: 12

Prerequisites: Completion of Calculus AB-AP with a “C” or better or teacher/counselor recommendation and a willingness to take the Calculus AP exam. There is a fee for the AP exam.

Meets UC/CSU requirements

AP Calculus is an advanced placement course available to students who have successfully completed the first year of Calculus. This course continues the study of both differential and integral calculus. This course prepares students for the College Board Advanced Placement Calculus Test. Students who successfully complete this course and examination may receive credit for a one-semester course in college calculus.

PHYSICAL EDUCATION DEPARTMENT

PHYSICAL EDUCATION 1

Open to Grade: 9

Prerequisite: None

This required class provides training in the basic motor skills used in various sports as well as intensive physical fitness training. Students will prepare for, and perform, state mandated physical fitness testing. Activity units may include basketball, cardiovascular fitness/movement skills, flag football, handball, soccer, volleyball, and fitness for life.

NOTE: Student's grade is based on dressing out and participation.

PHYSICAL EDUCATION 2

Open to Grade: 10

Prerequisite: None

This required class provides opportunities to study the advanced skills and strategies of specific sports while continuing to improve individual fitness. Activity units may include weight lifting, flag football, volleyball, softball, soccer, dance, and basketball. Students are required to pass two years of Physical Education for graduation.

P.E. 3 – WEIGHT TRAINING AND FITNESS

Open to Grades: 11, 12

Prerequisite: Successful completion of both P.E. 1 and P.E. 2

In this course the students will learn and perform motor skills required in both strength training activities and aerobic activities. The students will work cooperatively with other students in training activities as well as spotting techniques. The students will learn principles of biomechanics involved in safe and successful fitness training. The students will eventually be able to create their own fitness and strength training program to meet their individual needs. The course will stress each individual training strategies to meet different levels of strength, power, and endurance. Social interaction is strongly encouraged and the students will learn how to work with a partner or in group while training. At the same time students will develop personal goals and will be encouraged to use motivation to improve themselves and others in the class. The course will stress lifetime fitness and the importance of a healthy lifestyle. Spotting techniques will be taught and safety will be the number one priority in the class.

P.E. ATHLETICS

Open to Varsity Athletes only with coaches' approval

PE athletics requires the signature of the Head Coach. You must be a Varsity Athlete who will participate in conditioning and skill development with your Coach. It should be noted that your Coach must have a sixth period prep and have made a commitment to working with you on their prep year round.

P.E. 3 – PHYSICAL FITNESS/AEROBIC ACTIVITIES

Open to Grades: 11, 12

Prerequisite: None

In this course, students will learn a comprehensive approach to physical fitness and develop an understanding of the human body as it responds to different levels of fitness. Students will first develop an understanding of the five health and fitness principles; students will then incorporate each of these principles into a well-designed, individualized fitness plan. Students will acquire knowledge which will enable them to make informed health choices; to meet physical challenges; and to develop positive behaviors in fitness, wellness, and movement activity throughout their lives. The course will include both lecture and activity sessions and students will be assessed through both performance of skills and written tests.

P.E. 3 – DANCE

Open to Grades: 11, 12

Prerequisite: None

Students will learn about dance and an appreciation of dance as a lifelong physical activity. Students will learn and practice the aspects of dance: alignment, balance, agility, and strength in the context of a variety of types of dance. Students will explore and engage in a variety of dance techniques including ballet, jazz, folk, modern, and tap. Students will study both the historical and artistic forms of the different types of

dance as well as learn and practice different dance forms. Students will also gain an understanding of the history of dance.

SCIENCE DEPARTMENT

BIOLOGY

Open to Grades: 9-12

Prerequisite: None

Meets UC/CSU requirements

Biology is a general Life Science course with a Lab. It covers the structure and function of cells, genetics, ecology, some physiology and evolution. This course meets the “D” (Lab Science) requirement for admission to UC/CSU schools. It is recommended that students take Biology before Anatomy/Physiology or Marine Biology

BIOLOGY HONORS

Open to grades: 9-12

Prerequisite: None

Meets UC/CSU requirements

Honors Biology is a fast-paced, rigorous course in which the student is expected to be highly motivated to achieve at an honors level. This course is an in-depth, lab-oriented approach to the biological sciences with emphasis on practical encounters. The core biology curriculum is designed to present an examination of the living world and related societal issues. Emphasis is placed on the scientific process, cells and cell processes, and the continuity and unity of life, including lab experiences.

MARINE BIOLOGY

Open to Grades: 10-12

Prerequisite: Grade of “C” or better in the previous science course. Meets UC/CSU requirements

This course meets high school requirements for graduation as life science. Marine Biology provides an alternative to Biology fulfilling those requirements for graduation in the context of Marine Biology. This course will provide an extensive science foundation or secondary study in the fields of Hydro-culture, Oceanography, Marine Ecology, Ichthyology, Limnology, and technical fields such as Water Treatment and Offshore Oil Refining. The course will consist of components such as The Tides, Water, The Shoreline, Tide Pools, Invertebrate Animals, Vertebrate Animals, Marine Mammals, Estuaries, Coral Reefs, Open Ocean/Deep Ocean. The course emphasizes in depth study with problem solving and synthesis, critical thinking, hands-on manipulation and observation, computer modeling, and career pathway foundations. Laboratory investigations will make up a bulk of class time. Students will be evaluated by

examination, independent and group projects, through independent and group assignment of responsibilities, laboratory analysis, and oral and written presentation.

FORENSIC BIOLOGY

Open to grades: 11-12

Prerequisite: “C” or better in Biology; “C” or better in Chemistry, “C” or better in Algebra and Geometry; Successful completion or concurrent enrollment in Physics or AP Biology/AP Chemistry strongly recommended.

Meets UC/CSU requirements

Forensic Biology is an advanced and rigorous science course for the college bound individual that covers the broad field of forensics with an emphasis on the biological aspects. It is a project-centered class that will provide students the opportunity to work collaboratively to design and implement original scientific ideas and write a professional style paper. Forensics is inquiry-based and laboratory intensive and will require students to use their past scientific knowledge to solve problems, analyze and apply scientific data, design experiments, use computers to monitor progress, and give a professional presentation. Due to the nature of this course, all applicants are required to receive an approval signature.

BIOLOGICAL LINKS TO ENERGY AND ENVIRONMENT

Open to Grades: 9-12

Prerequisites: None

Meets UC/CSU requirements

CTE career pathway: Energy and Environmental Technology

What role does cellular biology play in our need for energy? How do the various forms of energy (natural and manmade) affect the biology of our environment? Biological Links to Energy and Environment answers these questions while also addressing environmental

laws affecting the energy industry. This course works well in academies stressing cross curricular instruction as an intermediate course in a sequence of energy and environmental tech and lab science courses helping to teach clean technology and how it is imperative to our future.

EARTH SCIENCE

Open to Grades: 9-12

Prerequisites: None

Meets UC/CSU requirements

Earth Science is a general Physical Science course. It covers the structure and function of rocks and the earth. Other topics include: the solar system, weather patterns, volcanic activity and plate tectonics. This class may include some field trips for field geology and map-making and map-reading skills.

CHEMISTRY

Open to Grades: 10-12

Prerequisite: Algebra I with a “C” or better or teacher/guidance counselor approval. Recommend completion of or concurrent enrollment in Algebra II.

Meets UC/CSU requirements

Chemistry is a college preparatory physical science course meeting the requirements of the University of California. Theoretical, quantitative, and laboratory approaches are used so the student may understand the basic concepts of chemistry. Students will need a calculator for homework.

CHEMISTRY HONORS

Open to grades: 10-12

Prerequisite: Biology with a B or better or Biology Honors with a C or better.

Meets UC/CSU requirements

Honors Chemistry is a college preparatory physical science course. This course is a study of the basic laws of chemistry, covering the common elements of the periodic system, their structure, interactions, and energy relationships. The course is accompanied by work in the mathematical solution of chemical problems, and laboratory use of experimental data. This course is especially important for students planning on attending college in a scientific or health-related field of study.

CHEMISTRY in the ENVIRONMENT: Water You Doing?

Open to Grades: 10-12

Prerequisite: None

Meets UC/CSU requirements

This course serves to introduce the principles of chemistry and environmental engineering through an understanding of the behavior of water and its interactions with the environment. Students will use a systems-based approach to understand that all environmental systems consist of matter and will apply this knowledge to solving current and future global water issues. This course seeks to explain the basic chemistry required to understand crucial environmental interactions in order to encourage students to take a critical approach to solving complex water-related issues on a local and global scale. Upon completion of the course, students will be able to integrate the complex questions surrounding the future use and consumption of water and develop possible solutions to this global crisis.

CHEMISTRY AP

Open to Grades: 11-12

Prerequisite: “C” or Better in Chemistry and willingness to take the Chemistry AP exam. There is a fee for the AP exam.

Meets UC/CSU requirements

The Advanced Placement Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Advanced Placement Chemistry is an in depth study of the chemical nature of matter, its

composition and its chemical and physical changes. Mathematics is used to gain a better understanding of the chemical concepts studied.

Laboratory experimentation is extensive and comprehensive, and involves the application of chemical concepts and qualitative and quantitative laboratory methods at the college level.

PHYSICS

Open to Grades: 11-12

Prerequisite: "C" or better in Algebra I

Meets UC/CSU requirements

Physics is a lab science course in which students investigate and develop physical models of the world around them. Specifically students will gain a greater understanding energy and its relationship to motion, force, momentum, basic electrical circuits, and waves. The course is designed to meet the needs of a wide variety of individuals regardless of their goals for education and a career after high school.

AP PHYSICS 1

Open to Grades: 11-12

Prerequisite: "C" or better in Algebra II

Meets UC/CSU requirements

In this challenging and exciting exploration to understand the laws that govern the universe, students act as scientists to develop working models of physical phenomena. Specific topics of study include motion, forces, gravity, energy, momentum, electricity, mechanical waves and sound. It is a rigorous course. This course is the equivalent of the first semester of a typical algebra based college physics course (© College Board 2014)

AP PHYSICS 2

Prerequisite: Physics or AP Physics 1

Meets UC/CSU requirements

This course is the equivalent of the second semester of a typical algebra-based college physics course. In this course students continue to broaden their understanding of the universe as they create and apply physical models for thermodynamics, fluids, electricity, magnetism, optics, and quantum and nuclear physics (© College Board 2014).

ANATOMY & PHYSIOLOGY

Open to grades: 11-12

Prerequisite: "C" or better in Biology; Successful completion of Chemistry recommended.

Meets UC/CSU requirements

Anatomy and Physiology is an advanced science course which is designed for the more motivated student of biology. The student should be capable of performing in an independent as well as small-group laboratory setting. The fields of inquiry will be: the scientific method, growth, development, genetics, and the anatomy and physiology of the nine systems of the human body.

ENVIRONMENTAL SCIENCE AP

Open to Grades: 11-12

Prerequisites: “B” or better in Biology (Chemistry recommended) or with teacher/counselor recommendation; also, willingness to take AP exam. *There is a fee for the AP exam.

Meets UC/CSU requirements

The A.P. Environmental Science course is interdisciplinary and embraces a wide variety of topics from different areas of study. There are several unifying themes that cut across the many topics included in the study of environmental science. The following themes provide a foundation for the structure of the AP Environmental Science course: (1) Science is a process, (2) Energy conversions underlie all ecological processes, (3) The Earth itself is one interconnected system, (4) humans alter natural systems, (5) Environmental problems have a cultural and social context, and (6) human survival depends on developing practices that will achieve sustainable systems. The course includes lectures, demonstrations, discussions, research projects, probes, in-class Electives assignments, homework, hands on labs and fieldwork are all methods of instruction.

RECOMMENDED SCIENCE MODEL

GRADUATION or COMMUNITY COLLEGE	4-year COLLEGE		4-year COLLEGE for SCIENCE MAJORS
Biology or Earth Science	Earth Science	Biology	Biology
Biology or Chemistry	Biology	Chemistry	Chemistry
No science required	Chemistry	Physics	Physics & Science Elective

SCIENCE ELECTIVES: Marine Biology, Physics, Forensic Biology, Anatomy and Physiology, AP Biology*, AP Chemistry*, AP Environmental Science

*college level course, have the opportunity to acquire college credit based on AP Test results

SOCIAL SCIENCE

WORLD HISTORY

Open to Grade: 10

Prerequisite: None

Meets UC/CSU requirements

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. Students will 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. Students will 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.

AP WORLD HISTORY: MODERN COURSE

Open to Grade: 10

Prerequisite: Recommendation from any 9th grade teacher or discussion and recommendation from Mr. Stephan.

Meets UC/CSU requirements

The Modern course for AP World History is a two-semester course designed by the AP College Board that surveys World History from 1200 to the modern day. It meets the California State Social Studies requirement for World History, and is designed to prepare students to be successful on the AP exam in May. The course consists of college level curriculum that will emphasize not only historical content, but also the development and acquisition of historical thinking skills including Developments and Processes, Sourcing and Situation, Claims and Evidence in Sources, Contextualization, Making Connections, and Argumentation. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. AP World History 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 the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study.

US HISTORY

Open to grade: 11

Prerequisite: None

Meets UC/CSU requirements

Students in grade eleven study the major turning points in American history in the twentieth century. Following a review of the nation's beginnings and the impact of the Enlightenment on U.S. democratic ideals, students build upon the tenth grade study of

global industrialization to understand the emergence and impact of new technology and a corporate economy, including the social and cultural effects. They trace the change in the ethnic composition of American society, the movement toward equal rights for racial minorities and women; and the role of the United States as a major world power. An emphasis is placed on the expanding role of the federal government and federal courts as well as the continuing tension between the individual and the state. Students consider the major social problems of our time and trace their causes in historical events. They learn that the United States has served as a model for other nations and that the rights and freedoms we enjoy are not accidents, but the results of a defined set of political principles that are not always basic to citizens of other countries. Students understand that our rights under the United States Constitution are a precious inheritance that depends on an educated citizenry for their preservation and protection.

US HISTORY AP

Open to grade: 11

Prerequisite: Recommendation of World History Teacher, and willingness to take the US History AP exam. There is a fee for the AP exam.

Meets UC/CSU requirements

The AP program in United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program 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. An AP United States History course should thus 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 an essay format.

African American History

Open to grade: 11

Prerequisite: World History

Meets UC/CSU requirements

African American History is designed to provide an in-depth analysis of the causes, character, and consequences of the African American experience and its influence on America and the world. It begins with a broad geographic, cultural, social, historical understanding of the African continent, West Africa in particular. The course will continue with the Columbian Exchange between the Americas and Europe. Then, the course will examine the causes and effects of the trans-Atlantic Slave Trade and the rise of chattel slavery in the Western Hemisphere and how the interaction of African, Native American and Europeans in the "New World" constitutes a unique American experience. The course will then focus on the struggles and triumphs of the

development of America from colonial times to the present with special attention given to the African American experience.

US GOVERNMENT & POLITICS AP

Open to Grade: 12

Meets UC/CSU requirements

AP US Government and Politics is a college level course that provides students an opportunity to earn college credit through an AP exam given in May. The AP Government & Politics: United States course provides an analytical perspective on government and politics in the United States. The goals of this course are for students to understand and comprehend important facts, concepts, and theories pertaining to our country's democratic political system. Students will be able to understand typical patterns of political processes and behavior and their consequences. Students will also be able to analyze and interpret basic data relevant to the U.S. government. Students should be able to use such data to understand the changes in spending, voting behaviors, interest groups, roles in government, social programs & economic policymaking in our country's 200 plus year history. The course covers Constitutional Underpinnings, Separation of Powers, Federalism, Political Beliefs, Political Parties, Interest Groups, Mass Media, Branches of Government, Public Policy, Civil Rights, Civil Liberties, and many other topics in line with the A.P. Test. The course will also require readings from sources other than the textbook, such as the Federalist Papers and document readers (these will be provided to the students). There will also be many court cases covered in this class, for example: United States v. Lopez, Miranda v. Arizona, and Roe v. Wade. This course will also include some sort of individual and/or class community service project.

CIVICS

Open to Grade: 12

Meets UC/CSU requirements

This is a semester class to be preceded or followed by Economics. 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.

ECONOMICS

Open to Grade: 12

Meets UC/CSU requirements

This is a semester class to be preceded or followed by Civics.

In addition to studying and understanding the United States system of Government in grade twelve, students will also develop a thorough understanding of the principles of economics. Students will understand fundamental economic concepts, the principles of micro- and macro-economics, as well as economic applications to both consumers and producers within the economic system. There will be a study of the nature and functions of product markets, the role of government policy in the economy, national income and price-level determination, the concepts of supply and demand, inflation, and debt. These economic principles will be interpreted in both the public and private sector. Many of these concepts will be studied in a historical context.

HUMAN GEOGRAPHY HONORS

Open to Grade: 9-12

Meets UC/CSU requirements

Human Geography Honors is a two-semester course which explores cultural landscapes and the physical environment around the world. Some of the main cultural marvels studied include, but are not limited to, language, art, music, different economic and governmental structures, and other cultural aspects that explain why people function as they do in the areas in which they live. The course will also emphasize the physical environment and its ability to either limit or nurture the development of various aspects of culture. In addition, Human Geography Honors focuses on the reading, writing, and study skills necessary to succeed in advanced social science courses.

FINE ARTS

ART 1

Open to Grades: 9-12

Prerequisite: None

Meets UC/CSU requirements

Students will be introduced to a variety of mediums and techniques for making art. They will work with graphite, colored pencil, marker, ink pen, scratch board, stained glass (simulated), tempera paint, watercolor paint, watercolor pencil, metal foiling, paper mache, calligraphy markers and foam clay. They will also be exposed to major historical art movements and art from different cultures. An emphasis will be placed on students developing creatively. Students get to keep all of the projects that they create.

ART 2

Open to Grades: 10-12

Prerequisite: Art 1 or teacher / counselor placement

Meets UC/CSU requirements

Students continue developing the skills they learned in Art 1. They will work with graphite, colored pencil, marker, ink pen, scratch board, stained glass (simulated), tempera paint, watercolor pencil, watercolor paint, charcoal, oil pastel, paper mache, metal foiling, and foam clay. They will also be exposed to major historical art movements and art from different cultures. An emphasis will be placed on students developing creatively. Students get to keep all of the projects that they create.

ART 3

Open to Grades: 10-12

Prerequisite: Art 2 or teacher/counselor placement

Meets UC/CSU requirements

An advanced level course in drawing and painting with an emphasis on developing a greater depth of understanding of art and application of the Elements of Art and Principles of Design to work in a variety of media. Studio experiences include working with graphite, colored pencil, marker, ink pen, scratch board, stained glass (simulated), tempera paint, watercolor pencil, watercolor paint, paper Mache, metal foiling, and foam clay. An emphasis will be placed on students developing creatively and competently. Students will also be exposed to major historical art movements and art from different cultures. Students get to keep all of the projects that they create.

AP STUDIO ART: Drawing Portfolio

Open to grades: 11-12

Prerequisite: Art 1 or teacher/counselor placement; also, willingness to complete AP Studio Art Portfolio. There is a fee for the AP scoring.

Meets UC/CSU requirements

The AP Studio Art: Drawing Portfolio course is designed for students who are seriously interested in the practical experience of art and wish to develop mastery in the concept, composition, and execution of their ideas. It is highly recommended that the students already have experience with drawing and painting. Students will work towards a final goal of producing a portfolio to submit to the AP College Board. A successful score will provide them with college credit. Students will make art with a variety of drawing and painting media including graphite, colored pencil, marker, ink pen, scratchboard, tempera paint, watercolor pencil, watercolor paint, charcoal and oil pastel. They will also be exposed to major historical art movements and art from different cultures. An emphasis will be placed on students developing creatively. Students get to keep all of the projects that they create.

AP STUDIO ART: 2D Design -- Photography

Open to grades: 11-12

Prerequisite: Complete one year of photography and/or have a teacher's recommendation; also, students should be willing to complete an AP Studio Art Portfolio. There is a fee for the AP scoring.

Meets UC/CSU requirements

This is a program for highly motivated students committed to the serious study of art. The work for AP Studio Art: 2D Design involves significantly more time than most art courses. This course is not intended for casually interested students. Students will work toward a final goal of producing a college level portfolio of work for submission to the College Board. A successful portfolio review will provide students with college credit. This portfolio will contain three sections reflecting quality, concentration and breadth. In order to be considered for AP Studio Art: 2D Design, students should have completed one year of art and/or have a teacher's recommendation.

AP ART HISTORY

Open to Grades: 10-12

Prerequisite: Minimum of "B" in current English class

Meets UC/CSU requirements

The AP Art History course should engage students at the same level as an introductory college art history survey. Such a course involves critical thinking and should develop an understanding and knowledge of diverse historical and cultural contexts of architecture, sculpture, painting and other media. It also provides an opportunity for schools to strengthen an area neglected in most curricula. In this course, students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. While visual analysis is a fundamental tool of the art historian, art history emphasizes understanding how and why works of art function in context, considering such issues as patronage, gender, and the functions and effects of works of art. Many colleges and universities offer advanced placement and/or credit to students who perform successfully on the AP Art History Exam.

VISUAL IMAGERY 1 (Digital Photography 1)

Open to Grade: 11, 12

Meets UC/CSU requirements

Must have instructors' permission if not 11 or 12 grade

This class is also offered Online

This course is an integration of communication skills and artistic proficiencies using photography as a focus. This course covers production techniques, aesthetics in photography, and develops production skills through hands-on experience with cameras, studio lighting, and imaging software. This course explores the use of photography as a fine art and as a form of communication, emphasizing fine art and documentary photography and the social and historical significance of images.

CERAMICS 1

Open to Grades: 10-12

Prerequisite: None

Meets UC/CSU requirements

This course is intended for those studying ceramics for the first time. It is a comprehensive introduction to the craft of clay working. It is recommended that the student take Art 1 prior to registering for Ceramics 1.

CERAMICS 2

Open to Grades: 10-12

Prerequisite: Ceramics 1

Meets UC/CSU requirements

Continued exploration of basic hand building and wheel throwing techniques. Emphasis on developing proficiency in clay use, surface applications, and kiln firings.

DRAMA 1

Open to Grades: 9-12

Prerequisite: None

Meets UC/CSU requirements

Drama 1 is an introductory course in acting, technical theater and performing arts. This is a performance-based class. Students must have a "C" average in order to perform.

DRAMA 2

Open to Grades: 9-12

Prerequisite: Drama 1

Meets UC/CSU requirements

Drama 2 is an intermediate course in acting, technical theatre, theatre appreciation and performing arts. This is a performance-based class. Students must have a C average in order to perform.

DRAMA 3

Open to Grades: 9-12

Prerequisite: Drama 2

Meets UC/CSU requirements

Drama 3 is an intermediate course in acting, technical theatre, theatre appreciation and performing arts. This is a performance based class. Students must have a C average in order to perform.

DRAMA 4

Open to Grades: 9-12

Prerequisite: Drama 3

Meets UC/CSU requirements

is an advanced course dedicated to enhancing the student performer's acting skills as well as teaching those students how to direct a theatrical production of their own.

CONCERT BAND

Open to Grades: 9-12

Prerequisite: None

Meets UC/CSU requirements

Little or no previous instrumental band experience required. Members are required to participate in performances.

MARCHING BAND

Open to Grades: 9-12

Corequisite: Dual-enrollment in another band class and audition by band director.

Students will learn a variety of music including traditional marches, rock charts, and school spirit songs. Students are required to participate in all performances. There is also a required summer band training session. This course has a fee required for uniform materials, which the pupil keeps for his/her personal use. Members are required to participate in all performances. Students enrolled in class for PE credit must be dual enrolled in another band class. 2nd Semester of P.E. is required. 1st semester Marching Band may be used for 5.0 credits of P.E.

SYMPHONIC BAND

Open to Grades: 9-12

Prerequisite: Band director approval. Members are required to participate in all Performances.

Meets UC/CSU requirements

Advanced instrumental wind and brass students will develop their sight-reading skills, instrument technique, and musicality. Students are required to participate in all performances, including concerts and adjudicated festivals. Because of the high caliber of music performed, there are some after-school rehearsals.

STRING ORCHESTRA

Open to Grades: 9-12

Prerequisite: Members are required to participate in all performances.

Meets UC/CSU requirements

Students will learn music theory, sight-reading, and string instrument technique. Students are required to participate in all performances. The dress code for this ensemble is a Tux for the gentlemen and a full-length black dress for the ladies. The cost for the outfit is a student expense and will be ordered through the orchestra director.

PERCUSSION

Open to Grades: 9-12

Prerequisite: Instructor approval through audition. Members are required to participate in all performances.

Students will learn music theory, reading, and performance techniques necessary to perform percussion ensemble music. Instruments studied in this class are mallet

instruments, bass drum, snare drum, timpani, steel drum and a variety of other percussion equipment. Students are required to participate in all performances.

ADVANCED PERCUSSION

Open to Grades: 9-12

Prerequisite: Band director approval.

Members are required to participate in all Performances.

Students will learn drum-line music and perform within the Marching Band. Students are required to participate in all performances.

MUSIC THEORY AP

Open to Grades: 10-12

Prerequisite: Since this course is equivalent to a first-year music theory course in college, students must be somewhat fluent in reading music and have a solid music foundation such as piano, guitar, chorus, band or other musical experience are sufficient; also, willingness to take the AP exam. There is a fee for the AP exam.

Meets UC/CSU requirements

Advanced Placement Music Theory is open to students who are interested in learning the principles of writing and analyzing music. Students will learn elements of music theory including intervals, major and minor scale construction, harmony, transposition, voicing, arranging, ear training, sight-singing and analysis. This course allows students to do college level work in music reading, notation, composition, performing and listening. The course will emphasize preparation for the advanced placement music theory examination. District extracurricular eligibility can affect a student's opportunity to perform in after school events.

MUSIC APPRECIATION

Open to Grades: 9-12

Meets UC/CSU requirements

One Year Course

This class is an academic elective class that exposes students to the general fundamentals of music, melody, harmony, rhythm, etc., and allows students to develop an aesthetic appreciation of music as an art form.

JAZZ ENSEMBLE

Open to Grades: 10-12

Prerequisite: Must have had at least one year of band at Knight High School.

Meets UC/CSU requirements

This secondary performance-based course provides students with a variety of jazz ensemble experiences. Music is studied and performed from an intermediate to advanced level of jazz repertoire. Jazz basics and technique are intermixed with the jazz festival music for the semester. This ensemble performs at festivals and performances throughout the semester. Extracurricular commitment is required.

Traditional jazz instruments are used in this course. (i.e. – saxophone, trombone, trumpet, piano, bass, drums & mallet percussion). Students should have at least one year of experience in the KHS band programs.

CHAMBER SINGERS

Open to Grades: 10-12

Prerequisite: 1 or 2 years previous choir experience with a demonstrated level of skill and commitment. Requires Choir Directors approval.

Meets UC/CSU requirements

The most select choral course offered. This course includes the most in depth study of chamber music literature from medieval music through contemporary music including art music, popular music, and theater music. Members of the Chamber Singers are required to participate in all rehearsal and performances not limited to classroom instruction hours. The select nature of the Chamber Singers requires the commitment to be individually accountable to represent the highest level of musical performance and character. The dress code for this ensemble is a Tux for the gentlemen and a full length gold dress for the ladies. The cost for the outfit is a student expense and will be ordered through the choir director. Includes A ~Capella skills and performances.

CHORAL ENSEMBLE – ACAPELLA

Open to Grades: 10-12

Meets UC/CSU requirements

Advanced Choral students will further develop their sight-reading skills, vocal technique, and musicality. Students are required to participate in all performances, including concerts and adjudicated festivals. Because of the high caliber of music performed, there are some after school rehearsals. The dress code for this ensemble is a Tux for the gentlemen and a full length gold dress for the ladies. The cost for the outfit is a student expense and will be ordered through the choir director. Includes A 'Capella skills and performances.

MARIACHI ENSEMBLE

Open to Grades: 9-12

This course is designed for those interested in learning and playing the folk music of Mexico. Students will study mariachi music through instrumental performance. Students who have no previous mariachi experience are still encouraged to enroll in this class. This group will be required to participate in concerts and other activities.

CONCERT CHOIR

Open to Grades: 9-12

Prerequisite: Requires teacher approval

Meets UC/CSU requirements

Intermediate and advanced students will learn music theory, vocabulary, performance, and singing techniques. Students will learn classical, sacred, folk, pop, rock, and show tunes. This group is composed of students with prior choral experience and a fundamental knowledge of music theory. Students are required to participate in all

performances. The dress code for this ensemble is a Tux for the gentlemen and a full length black dress for the ladies. The cost for the outfit is a student expense and will be ordered through the choir director.

SHOW CORP (Color Guard)

Open to Grades: 9-12

Prerequisite: Instructor approval through audition

Meets UC/CSU requirements

Students will learn techniques and routines for tall flags, rifles, and sabers. Students will perform with the marching band at performances and compete in parades. Students are required to participate in all performances. There is a fee for this group. 1st semester Show corps may be used for 5.0 credits of P.E. OR Elective Credit.

Additional Courses

AP Seminar, AVID, Stagecraft, Work Experience

AP SEMINAR

Open to Grades: 10-11

Meets UC/CSU requirements

AP Seminar is a year-long course that has students investigate real-world issues from perspectives. Students learn to synthesize information from different sources, develop their own lines of reasoning in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team.

AP RESEARCH

Open to Grades: 11-12

Prerequisite: successful completion of AP Seminar

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year long research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper and a presentation with an oral defense.

AVID 1, 2, and 3 ELECTIVE

Open to Grades: 9-12

Prerequisite: Entrance is by application only.

Students in Avid 2 & 3 must agree to take one Advanced Placement (A.P.) or Honors Course

The AVID elective courses at all grade levels are designed to prepare, in an academic context, students for entrance into four year colleges, with emphasis on analytical writing, preparation for college entrance exams (PSAT, SAT, ACT), college study skills and test taking, note taking, and research. The course features college students who support student learning primarily in small groups.

AVID IV

Open only to seniors who have been enrolled in AVID previously.

Prerequisite: An interview and completion of application are required and students must agree to take at least one AP class during their senior year.

Students will be screened to verify that they are on track to meet all a-g requirements before graduation.

AVID IV is a one-year interdisciplinary course for AVID seniors. The course is designed for those students who elect to take a course that prepares them for the rigor required for college work. Students are required to apply to four-year colleges, to apply for scholarships and to enroll in at least one AP class during their senior year. Students will engage in higher levels of WICR (Writing, Inquiry, Collaboration and Reading) strategies experienced in prior years of AVID. Students will create and complete a culminating portfolio in lieu of a final examination in May. During the entire school year, students will engage in collaborative groups with college tutors to enhance critical thinking skills needed for college.

ASB / STUDENT GOVERNMENT

Open to Grades: 9-12

Prerequisite: Must be elected or appointed to office.

Student Government is a course for the student leadership at Knight High School. During this class, students conduct the business of the Associated Student Body (ASB) including approving club and class activities, planning school wide events and supporting the overall vision and mission of the school. The student leadership may also be called on to interact with other schools both inside and outside of the District and with the community at large as representatives of Knight High School. Enrollment in this class is limited to those students elected to class or school wide office or students appointed to a leadership post.

PEER HELPING

Open to Grades: 11-12

The Peer Helping Course is designed to teach the process of helping another person through peer assistance leadership. Students will enter into one-on-one helping relationships; assume leadership roles, advise, tutor, and peer counseling.

STAGECRAFT

Open to Grades: 11-12

Stagecraft will examine the relationship between the performing arts and the technical requirements necessary to undertake a theatrical production. Students who achieve

competency in this course will develop knowledge and skills in theater and set architecture, design elements, stage management, lighting design, costume design, make-up application, and participation in local production(s), and will be prepared for entry-level employment. Entry-level positions include stage hand and set decorator.

STAGECRAFT ADVANCED

Open to Grades: 11-12

Prerequisite: Stagecraft

Stagecraft 2 will examine the relationship between the performing arts, the technical requirements necessary to undertake a theatrical production, as well as the requirements for supervising all technical aspects of a theatrical production. Study will include detailed play and performance analysis, scene design, set construction, lighting, sound, properties, house management, and employment opportunities. Emphasis will be placed on developing leadership skills necessary for working as a “Crew Lead” in the theatre.

WORK EXPERIENCE PROGRAM

Prerequisite: At least 16 years old, Junior or Senior status and a legitimate, paid job.

Credits: 5 credits per quarter, 40 maximum.

Work Experience Education is an elective class which combines paid employment with classroom instruction. Students attend their own jobs during the week, and also attend a class 9 hours per quarter. Students may elect to have a shortened day (4x4) with parental approval. Students will develop work habits, attitudes, self-confidence, job skills, and a personal portfolio which can be used to locate, secure, and retain employment in the community. Students must have an approved, legally paid job while enrolled in this elective. A grade and course credit is earned by successful completion of the course requirements: attending class, submitting paycheck stubs, and completing class assignments.

AEROSPACE SCIENCE DEPARTMENT

Air Force Junior Reserve Officer Training Corps (AF JROTC)

Air Force JROTC seeks to develop citizens of character dedicated to serving their nation and communities. Each year-long JROTC course is a balanced mix of Aerospace Science, Leadership Education, and Wellness Education. The complete JROTC program includes science components, physical education components, basic military drill skills (marching and facing movements), physical conditioning, and team sports. AF JROTC cadets at all levels are eligible to participate in a Zero-Period Drill &

Ceremonies class that focuses exclusively on marching, drill & ceremony, and carrying of rifles and flags in performance teams.

AEROSPACE SCIENCE I (AF JROTC)

Open to Grades: 9-12

Year-long course: 10 Physical Education Credits

Prerequisite: None

The first year of Aerospace Science is a history course designed to acquaint the student with the historical development of flight throughout the centuries. The emphasis is on civilian and military contributions to aviation, with emphasis on the development, modernization, and transformation of the US Air Force. The first-year Leadership Education portion focuses on US Air Force traditions, customs and courtesies, as well as personal study habits and time management. First-year cadets are also introduced to wear the uniform and military marching skills, and Wellness Education, which acquaints the students with the importance of overall “whole person” wellness, to include physical, emotional and social components.

AEROSPACE SCIENCE II (AF JROTC)

Open to Grades: 10-12

Year-long course: 10 Physical Science Credits

Prerequisite: Successful Completion of Aerospace Science I

The second year of Aerospace Science focuses on the science of aircraft flight. Cadets study how airplanes fly, the effects of flight on the human body, and flight navigation with a particular emphasis on weather. Second-year Leadership Education stresses interpersonal communication and provides cadets with opportunities to improve leadership skills. Cadets are encouraged to participate by holding positions of greater responsibility within the Cadet Corps, to include planning and execution of Corps projects. Written reports and speeches complement course materials. Wellness Education continues to stress the importance of “whole person” wellness.

AEROSPACE SCIENCE III (AF JROTC)

Open to Grades: 11-12

Year-long course: 10 Elective Credits.

Prerequisite: Successful Completion of Aerospace Science II

The third year of Aerospace Science emphasizes the exploration of space. Included in the curriculum is a review of astronomy from ancient times to the modern day, and a study of the elements of our solar system. Cadets also learn the basics of orbits and trajectories of spacecraft, and of rockets and propulsion systems. Leadership Education emphasizes life skills and career opportunities. The life skills curriculum is designed to prepare students for life after high school in the high-tech, globally oriented, and diverse workplace of the 21st century. Topics include career and school selection, as well as managing finances, citizenship and ethics. Wellness Education continues an emphasis on “whole person” wellness.

AEROSPACE SCIENCE IV (AF JROTC)

Open to Grade: 12

Year-long course: 10 Elective Credits.

Prerequisite: Successful Completion of Aerospace Science III

The fourth year of the AF JROTC program places heavy emphasis on leadership, both in theory and in practical application. Fourth-year Cadets plan and execute all aspects of the cadet corps, and in fact the science portion of the course is the actual management of the cadet corps. This hands-on “leadership laboratory” affords Cadets the opportunity to put the theories of leadership and previous AF JROTC courses into practice. Leadership education emphasizes principles of management. Wellness Education continues to stress “whole person” wellness.

DRILL AND CEREMONIES (AF JROTC)

Open to Grades: 9-12

Year-long course: 10 Elective Credits

Co-requisite: Concurrent enrollment in an Aerospace Science course OR Senior Aerospace Science Instructor approval.

The Drill and Ceremonies course provides an in-depth instruction in military drill and ceremonies. Students are provided detailed instruction on ceremonial performances and protocol for civilian and military events. Cadets will demonstrate numerous drill movements with precision, using flags, ceremonial rifles, and elements of formal ceremonial events. The course is designed to help Cadets appreciate the need for authority, discipline, precision and teamwork to bring credit to the Corps, to Knight High School, and to the US Air Force.

SPEECH

Open to Grades: 10-12

Year-long course

Prerequisite: None

Speech is a practical course designed to offer the novice speaker a number of opportunities to organize and prepare public speaking assignments. The course will also offer a “laboratory setting” where the beginning speaker can actually stand in front of a live audience and present his/her practiced performance. In addition to public speaking, further performance opportunities may be included in the area of public oral reading. Students will learn about the role of communication in our lives, the communication model, spatial relationships, delivery styles and the effectiveness of language, gestures, and organization techniques.

CAREER TECHNICAL EDUCATION (CTE)

Career Technical Education (CTE) program courses provide students with the opportunity to explore their career interests while they prepare themselves for postsecondary educational options including private schools, community colleges, and 4-year colleges and universities. CTE elective classes are taught using project-based learning and hands-on activities that make academic concepts relevant to the real world, while practicing theoretical content. Many classes provide college credit through articulation, with courses at Antelope Valley College, and many meet the UC system's A-G requirement. Classes are offered at the high school campuses, with the exception of Fire Technology. Online classes are also available this school year. .

ADDITIONAL COURSES AVAILABLE at OTHER CAMPUSES:

CTE offers additional courses that students can take if they meet eligibility requirements and have their counselor approval. Students must provide their own transportation. Please see your Counselor for more information.

HEALTH CAREERS ACADEMY

Through application process only

6th/7th periods only

Located at Palmdale High School

Medical Clinical 1 (taken concurrently with Medical Science 1)

ROP, One-Year Course, 10 Credits

Open to Grades: 11 and 12

Meets UC/CSU requirements

These classes require a Health Careers Academy application. Students attending a class at a school site other than their school of attendance must provide their own transportation to all classes and internship sites. This course provides instruction and training for students interested in careers in the health care professions. Students who achieve competency in this course will develop knowledge and skills required for entry into the health care occupations and meet the needs of the advanced clinical program. After initial required medical subjects, students will spend two days per week in clinical sites developing clinical skills. Successful students will receive a certificate listing the proficiencies which they have completed during the course. Topics of study include structure and function of major body systems, vital signs as health indicators, weights and measures, nutrition, and patient observation and reporting, and will be prepared for entry-level employment. The course provides certification for BLS CPR, Advanced First Aid, and phlebotomy certification, and will be prepared for entry-level employment.

DENTAL ASSISTING

ROP, One-Year Course, 20 Credits

Double-Period Internship Course

Located at Antelope Valley High School

Open to Grades: 11 and 12

This class requires a Cross Enrollment application. Students attending a class at a school site other than their school of attendance must provide their own transportation to all classes and internship sites.

This course provides instruction and training for students interested in careers related to the dental profession. Students who achieve competency in this course will develop knowledge and skills in basic dental office skills, anatomy, physiology, dental materials and preventative dental care. Students successfully completing this class could enter a dental radiography component and/or a certified dental assistant program and will be prepared for entry-level employment. Entry-level positions include dental assistant.

EMT (Emergency Medical Technician)

Students must meet eligibility criteria

Located at Highland High School

ROP, One-Year Course, 10 Credits

Open to Grades: 12 only

This class requires a Cross Enrollment application. Students attending a class at a school site other than their school of attendance must provide their own transportation to all classes and internship sites.

Emergency Medical Technicians provide emergency medical and trauma care in the pre-hospital and emergency room setting. The course curriculum was developed by the National Highway and Traffic Safety Administration and is a Los Angeles County approved Emergency Medical Technician course. This course is a combination of theory lecture and discussion, and skills lab. Students will also complete clinical rotations with local ambulance companies or at a local hospital. Successful completion makes students eligible to sit for the National Registry of EMT exam.

BODY SYSTEMS AND DISORDERS

Year-long course: 10 Elective Credits

Meets UC/CSU Requirements

Open to Grades: 9 - 12

This class is offered Online Only

This course focuses on human anatomy and physiology, normal function of body systems, associated pathologies, and medical interventions. Emphasis is on providing students with a thorough understanding of body systems and their interrelationships. The course includes advanced medical terminology as applied to diseases, disorders, medical interventions and body systems. As part of instruction, this course reinforces skills in reading, writing, speaking, listening, and mathematics and requires their application in workplace situations. Integrated throughout the course are foundation standards, which include communication, ethics, interpersonal/team skills, critical thinking and problem solving, safety, technology, and other essential skills. Students are given opportunities to demonstrate personal qualities, including responsibility, self-confidence, and self-management.

INTRODUCTION TO HEALTH CARE

One-Year Course, 10 Credits

Open to Grades: 9 - 12

This class is offered Online Only

This course is designed to provide the student with a basic overview of the healthcare field. The basic entry level information that is covered will give the student a solid foundation for whatever particular health career they choose to pursue. Modules of instruction include: Medical Assisting, Emergency Medicine, Dental Assisting, Pharmacy Technician, Computers in health care, Careers in health care, Medical Terminology, Medical Math, and Writing Skills.

Public Services

FIRE TECHNOLOGY

Through application process only

Located at North County Training Center in Palmdale

ROP, Year-long Course, 10 Credits

Open to Grades: 11 and 12

This class requires a Cross Enrollment application. Students attending a class at a school site other than their school of attendance must provide their own transportation to all classes and internship sites.

The Fire Technology courses provide instruction in both the basic and advanced techniques of fire fighting, including the various levels of fire service administration, knowledge of fire service apparatus, knowledge of fire service equipment, the ability to use extinguishing agents, understanding of fire protection systems and equipment, understanding of fire behavior, types of building construction related to fire services, proper use of personal protective equipment, proper use of ropes and knots, proper use of tools, proper use of hoses, nozzles, and fittings, the proper use of ladders, proper use of search and rescue techniques, ventilation related to fire service, correct tactics and strategy for fire fighting, property conservation and salvage methods, proper handling of hazardous materials, and cardiopulmonary resuscitation techniques. Students need to obtain their CPR Certification and meet certification requirements for use of AED.

Transportation

AUTO GENERAL SERVICE TECHNICIAN

ROP, One-Year Course, 20 Credits

Double-Period Internship Course

Located at Quartz Hill High School

Open to Grades: 11 and 12

This class requires a Cross Enrollment application. Students attending a class at a school site other than their school of attendance must provide their own transportation to all classes and internship sites. On Monday, Tuesday, Thursday and Friday, class begins at 12:46 (ends at 2:53). On Wednesday, class begins at 10:57 (ends at 12:16).

ROP Automotive General Service Technician is designed to develop students interested in a career in the automotive industry. This course will cover safety, the use of tools and equipment, and the use of reference material. Students will complete basic practices in four ASE content areas including: A4 Suspension and Steering, A5 Brakes, A6 Electrical and Electronics, and A8 Engine Performance. This course includes a job shadowing component performed at local automotive dealerships.

Building Trades and Construction

COMPUTER AIDED DESIGN

Year-long course: 10 Elective Credits

Open to Grades: 9 - 12

This class is offered Online Only

Learn 3 dimensional modeling and design. Computer-aided drafting and design covers the development of drafting skills to the use of computers in industry to create designs and drawings. Continue your career pathway by taking classes in PHS' FAST Academy. (Course number 05164)

Finance and Business

CONTEMPORARY STUDY OF BUSINESS

Year-long course: 10 Elective Credits

Open to Grades: 9 - 12

This class is offered Online Only

This course is designed to introduce students to the world of business. The emphasis of the course is on how business changes to remain competitive in an ever changing global society. Major topics include business communications, the basic economic question and decision-making by consumers, economic systems, marketing goods and services, finance, and human resources. (Course number 04134)

INTERNATIONAL BUSINESS

ROP, One-Year Course, 20 credits

Double-period Internship Course

Located at Lancaster High School

This class is also offered Online

Open to Grades: 11 and 12

This class requires a Cross Enrollment application. Students attending a class at a school site other than their school of attendance must provide their own transportation to all classes and internship sites.

International Business is a course that will analyze issues of international trade, and explain how the U.S. economy affects, and is affected by, economic forces beyond its borders. IB is designed to provide students with an in-depth understanding of international business and global trade. Students will develop knowledge in the cultural, social, political, legal and economic factors and conditions that interact to create the international business environment. Concepts covered include: economic systems, resources, industries, technology, balance of payments and foreign exchange. Cultural and social factors such as language, education, religion, values and customs, and social relationships will be examined as related to conducting business in a global economy. Furthermore, studies will include foreign government structures, political stability and government policies toward business. It will enable students to understand fundamental economic and business ownership concepts and terms, microeconomics and macroeconomics and their relationship to small business, key elements involved in owning a business and the implementation of marketing and business plans, economic systems, international relations and the global economy, measurement of economic

performance, management of human resources, the importance of the international economy, methods of growth in the U.S. economy, and will enable students to develop critical thinking and economic decision-making skills. The course focuses not only on the historical and the present economic markets, but asks students to forecast the effects that policy prescriptions will take in the future. Through the study of economic topics, students will develop critical thinking skills necessary to apply economic policies to the real world, to analyze past and current problems, and those of tomorrow. Students will research economic issues that exist in their community as well as worldwide.

ONLINE COURSES

The following classes are offered online during the 2020-2021 school year. They are one year long and are worth 10 elective credits. Students will meet on campus three times during the school year, and must provide their own transportation. To enroll in an online class, please speak with your school site counselor and your site's ROP Counselor.

COMPUTER AIDED DESIGN

Learn 3 dimensional modeling and design. Continue your career pathway by taking classes in PHS' FAST Academy. (Course number 05164)

CONTEMPORARY STUDY OF BUSINESS

This course is designed to introduce students to the world of business. The emphasis of the course is on how business changes to remain competitive in an ever changing global society. Major topics include business communications, the basic economic question and decision-making by consumers, economic systems, marketing goods and services, finance, and human resources. (Course number 04134)

DDE ACADEMY

Engineering Design and Development (EDD)

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. This course is appropriate for 12th grade students.

This course would be offered online (ROP supported), but meeting in person once a week. It would only be available to academy students.

DENTAL OFFICE

This course provides introductory instruction and training for students interested in careers related to the dental profession. From here you can take the Dental Assisting

course at AVHS and get an actual internship working in a real dentist's office! (Course number 19718)

INTRODUCTION TO EDUCATION

Students taking this class will learn about the history, psychology, and theory behind learning and teaching, as well as preparation for internships. Once you take this class, you will be ready to take the Introduction to Education Practicum class at HHS, LnHS, LHS, or PHS where you get to intern at a real elementary or middle school! This class also fulfills the UC a-g "g" requirement. (19695)

MEDICAL OFFICE TERMINOLOGY

The Medical Terminology Online Course: "Terms for Practice", is designed to facilitate learning and comprehension of the basics of medical terminology in relation to each system of the body. This online course combines an interactive study experience, as well as learning at your own pace. Students will learn to use proper terminology and spelling for major pathological conditions. (One-semester class, 5 credits) (Course number 19971)

VISUAL IMAGERY 1

This course covers both film and digital photography. You will learn basic camera controls, digital imaging, basic Photoshop editing, history of photography as well as fine art photography. You will need a digital camera and computer and internet access at home.

PHOTOGRAPHY 2

This intermediate level digital photography course will build on the skills you learned in Visual Imagery by practicing advanced lighting, editing and how to use your skills to acquire careers in photography.

ILLUSTRATION (MCD1)

Learn the basics of illustration and design using digital tools to create artwork.

ANIMATION (MCD2)

Use your Illustration skills from MCD1 to develop your own animations.

AP STUDIO ART

Create a portfolio of professional quality photographs to submit to the College Board.