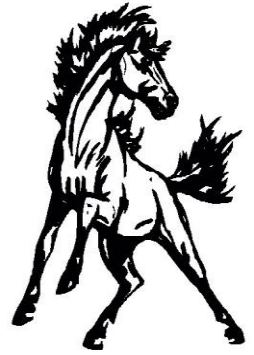


COAST UNION HIGH SCHOOL COURSE DESCRIPTIONS



The following pages contain course descriptions for courses currently offered at Coast Union High School. Each description contains information on which grade level(s) may take the course, what (if any) prerequisites are required before taking the course, whether it can be repeated for credit, and whether it meets entrance requirements for the University of California and the California State University systems **UC/CSU**.

College prep classes will be designated by a “P” after the course title. Honors and AP classes will be designated by an 'HP' after the course title. All AP, honors, and college prep classes meet entrance requirements for the California State University and University of California systems and will be designated **UC/CSU**. Although no formal agreement exists with other universities, they consistently accept any course approved by UC and CSU.

Each course has a bracketed subject area designation that shows which subject area requirement can be met by the course, what grade level the student must be in to take the course, and what if any prerequisites must be met before the student may enroll in the course. Example (see next page): ROP Accounting is for 11th and 12th graders only and meets the subject requirement for Computer Literacy. It is not college prep and requires prior completion of Algebra I with a “D” grade or higher.

Although a course may be used to meet more than one subject area requirement, each course can only be used to meet one requirement (Ex: Accounting may be used to meet a graduation requirement for math, vocational education or computer literacy, but not all three).

Some course availability may be contingent upon student interest.

Guide to Terms:

AG = Agriculture

AP = Advanced Placement

ELD = English Language Development

ESLRS = Expected Schoolwide Learning Results

IEP = Individual Education Plan

HP = Honors Class

P = College Prep

ROP = Regional Occupational Program

UC/CSU = University of California / Cal State University

Voc. Ed. = Vocational Education

COMPUTER LITERACY

COMPUTER PROGRAMMING: 10th - 12th Grade / (Voc. Ed)

Prerequisite: Computer keyboarding skills

This course will provide an introduction to computer programming through project based learning. Topics covered will include: history and people of computers, computer components, BASIC programming language, and 3D graphics programming. The syntax and structures of the BASIC language will be introduced and practiced. The commands and structures for creating 3D graphics will also be covered. Software used in the course will include JustBASIC and DarkBASIC. Flowcharts, project reporting, and analysis will be emphasized.

ROP BUSINESS APPLICATIONS: 9th -12th Grade / (Voc. Ed)

Prerequisite: None

This course is for students with little or no previous computer experience. The course will provide knowledge of the computer keyboard as well as basic word processing functions. Students will also learn practical applications for computer usage in the home, school, or workplace. Students will be provided with an opportunity for further improvement in word processing as well as an introduction to database, spreadsheet and multi-media presentation software.

ROP COMPUTER ASSISTED ACCOUNTING: 9th - 12th Grade / (Voc. Ed) (Math)

Prerequisite: None

This program is designed to teach computer concepts to facilitate accounting functions of a business. It will provide “hands-on” experience with a computer. The goal of this program is to prepare students for entry-level employment in the use of computers for accounting. Community speakers will be included in classroom training to review computer applications to account and employability concepts.

ROP ELECTRONIC DESIGN & PRESENTATION: 10th-12th Grade / (Voc. Ed)

Prerequisite: Completion of Business Applications with a “D” or better.

Electronic Design and Presentation is designed to provide the student with knowledge, skills, and hands-on application in the areas of: Graphic Design and Layout, Desktop Publishing, Web Page Design and Layout, and Multimedia Presentations. To introduce students to the employment opportunities available in the graphic design/layout field, desktop publishing field, web page design/layout field, and the multimedia industry with and emphasis on entry level employment and/or further training in these fields.

WEB DESIGN: 11th - 12th Grade / (Voc. Ed)

Prerequisite: None

Web Design is a rigorous program which follows California State Standards. In addition to learning skills needed to develop/design a web site, students will become proficient in many applications. Students will assist teachers with designing and maintaining their web pages.

COMPUTER NETWORKING AND REPAIR: 11th -12th Grade / (Voc. Ed)

Prerequisite: Computer keyboarding skills

This course is designed to introduce students to networking concepts, history and technology. Students learn vocabulary and terminology and are trained to identify the components of a network. Types of topologies and protocols are covered and students are trained to implement and support small networks. Students will also learn computer repair, maintenance and troubleshooting. The completion of this course will provide students with employment opportunities as well as introduce potential career choices.

ENGLISH

ENGLISH LANGUAGE DEVELOPMENT: 9th-10th Grade

Prerequisite: English assessment will be used to place students in ELD

A beginning course in English as a second language. It gives students wide experience in listening, speaking, reading and writing skills in the English language. There is an emphasis on communication in real life contexts as well as on vocabulary, grammar and pronunciation. Historical and cultural aspects of the English speaking world are also studied.

ENGLISH SUPPORT: 9th-12th Grade

Prerequisite: Placement is made by English assessment.

English Skills is a non-college preparatory course designed not only to cover five main areas of language instruction (literature, composition, vocabulary/spelling, grammar and the research process), but also to offer remediation in reading and writing to improve students' SAT9 scores (those who score below and far below basic), aid students in passing the High School Exit Exam, improve English skills in English Language Learners, and prepare all students for entry into the college preparatory English program.

ENGLISH I-P: 9th Grade

Prerequisite: None

The emphasis of the course will be the study of literature, incorporating extensive reading, analysis (both individual and group), writing and speaking. We will work on the various forms of writing: creative, descriptive, narrative, and expository. A passing grade is needed as a graduation requirement. Course instruction is geared to assist students in meeting the California State English/Language Arts Standards and the Expected School wide Learning Results (ESLRS) established for Coast Union High School. In order to qualify for Honors English II (sophomore year), a student must earn an 'A' (at least 90%) in both semesters of English I and be recommended by his/her teacher. UC/CSU

ENGLISH II-P: 10th Grade

Prerequisite: Completion of English I with a "D" or better.

English II is a more intense extension of English I in that it is a survey of different kinds of literature mixed with a continued study of grammar, composition skills, and increased vocabulary. Emphasis is placed on students being able to write in a legible, literate, and intelligent manner with minimal grammatical errors. Different kinds of composition are explored as are a variety of methods for understanding and appreciating literature. Students are expected to do homework on a regular basis, take notes in class, come prepared to learn, study at home, and be disciplined enough to participate intelligently in a college prep course.

UC/CSU

ENGLISH II-HP: 10th Grade

Prerequisite: "A" grades for both semesters of English I.

Experience the marvels of British literature, starting with the Anglo-Saxons and dragon-slaying Beowulf and concluding with the psychological modern fiction of the 20th century. Along the way, travel with Chaucer to Canterbury, march with Macbeth's army in Scotland, engage in witty repartee with Johnson and Boswell in the 18th-century coffeehouses of London, trek through the Lake District with the Romantic poets, and walk the wild moors with the Bronte sisters. An emphasis is placed on reading and composition although vocabulary and grammar are also included in this course.

UC/CSU

ENGLISH Continued...

ENGLISH III-P: 11th Grade

Prerequisite: Completion of English II with a grade of “C” or better.

English III is a one-year college preparatory course with an emphasis on the study of American literature from its early days to contemporary writings. Students will also prepare themselves for the SAT I and SAT II, with a review of vocabulary and grammar usage. Course instruction is geared to assist students in meeting the California State English/Language Arts Standards and the Expected School wide Learning Results (ESLRS). **UC/CSU**

ENGLISH III-HP: 11th Grade

Prerequisite: Completion of English II Advanced with a grade of “B” or better or completion of English II with a grade of “A” for both semesters.

Honors English III is a one-year survey, honors course with an emphasis on the study of American literature from the romantic period to contemporary writings. Through the study of American literature, students will further develop reading, writing, listening and speaking skills, and also become aware of the connection between a country's history and the development of its literature and arts. Specific assignments will be made in grammar usage, vocabulary, and literary interpretation. The course will be more challenging and demanding than the regular English III course and will require a summer reading assignment. **UC/CSU**

ENGLISH IV-P: 12th Grade

Prerequisite: Completion of English III with a grade of “C” or better

Truth! Justice! Love! Evil! Fate! All these and more will be themes available to the senior English student. Spend time in futuristic societies, on the wind-swept English moors, in Gothic villas. Meet mad scientists, noble savages, melancholy Danes and other tortured souls. In addition, fine tune composition, vocabulary, and grammar skills while reading, analyzing, interpreting, reflecting and writing about a plethora of topics. **UC/CSU**

AP ENGLISH-HP: 12th Grade

Prerequisite: Completion of English III or III Honors with a grade of “B” or better is recommended. A course designed to help students prepare for the AP English Literature exam, this class offers motivated readers an opportunity to experience a wide range of literary themes and genres and engage in stimulating and academic conversation regarding these works. Although encouraged to take the AP exam in the spring, all students who LOVE to read and discuss the ideas generated through literature are welcomed. Emphasis is on the novel, poetry and drama; the reading list covers different eras of work. Themes and motifs discussed include speculative/futuristic fiction, the heroic journey, magical realism, etc. Students taking honors or AP courses earn an extra grade point and those students who take and pass the AP exam may earn college credit. See specific colleges for their AP policy. **UC/CSU**

FINE, VISUAL AND PERFORMING ARTS

ART I-P: 9th-12th Grade

Prerequisite: None

Art I is a one-year comprehensive program that integrates the areas of aesthetics, art criticism, art history and studio productions. Students develop an awareness of, and appreciation for, the presence of art in everyday experiences. They learn to apply the elements and principles of design by working with a variety of media. The textbook website is oriented to help students by providing chapter summaries, quizzes, vocabulary and various activities. **UC/CSU**

ART II-P: 9th-12th Grade

Prerequisite: Completion of Art I

Art II is a one-year exploratory course. It is based on the extension of knowledge taught in Art I. Students experience hands on application using the elements and principles of design in art designs and projects. The areas of aesthetics, art criticism, and art history are also studied, and used as a basis for inspiration of some projects. The Art textbook is used for reference in this class. **UC/CSU**

AP ART-HP: 12th Grade

Prerequisite: Completion of Art I and II

The Advanced Placement Studio Art Program enables highly motivated students' to do college level work while in high school. Students' will submit a portfolio to the College Board in three sections, **Quality, Breadth and Concentration** for a total of 24 artworks. **UC/CSU**

ADVANCE CONCERT BAND-P: 9th-12th Grade

Prerequisite: Have own instrument and been playing for several years.

In band, students will receive instruction on wind and percussion instruments and develop instrumental skills and techniques in solo and group performances. Various styles and periods of music will be explored including jazz, pop, rock and marching. **UC/CSU**

BEGINNING GUITAR/PERFORMING ARTS: 9th-12th Grade

Prerequisite: None

Beginning Guitar is a one-semester course that will cover instruction on basic guitar techniques including chording, strumming, picking and reading chord symbols. Students will play folk, blues and pop tunes while learning music theory.

Performing Arts is the second semester of Beginning Guitar and will include vocalists and select instrumentalists on guitar, bass, drums, keyboards, sax, flute, trumpet, or trombone. Students will have an opportunity to perform solo and as part of small groups.

CHORUS-P: 9th-12th Grade

Prerequisite: None

Chorus is a non-audition group open to freshmen through seniors. The class emphasizes basic music theory, vocal training, sight singing and performance. A variety of music is learned including classical, jazz, folk, modern, and multi-cultural. Singers perform in fall and spring concerts, festivals, and sing at many other local venues. No previous experience is necessary. **UC/CSU**

FINE, VISUAL AND PERFORMING ARTS Continued...

3D DESIGN: 9th-12th Grade

Prerequisite: None

A variety of craft methods will be introduced in this class. Projects may include: Mosaic, stained glass, copper enameling, glass fusing, metal embossing, batik, wood burning and carving, mask making, weaving, and nature crafts, are among the methods that students will learn in this class.

UC/CSU

VIDEO PRODUCTION: 11th -12th Grade / (Voc. Ed.)

Prerequisite: None

This course will provide students with a basic understanding of the technology associated with video production as an information medium. Upon completion students will be able to demonstrate a variety of production skills and techniques. Example formats include producing school news features, sports highlights, short film, memory montage, documentary video, music video, and advertisements. Students will also develop skills in story design, script writing, video editing, and studio production.

FOREIGN LANGUAGE

FRENCH I-P: 9th-12th Grade

Prerequisite: None

Welcome to the French-speaking world! In this class, we will discover the Francophone world and appreciate its culture. We will develop reading, writing, listening and speaking skills at a beginner level. By the end of the school year, you will be able to communicate in a Francophone environment. @ Bienvenus! UC/CSU

FRENCH II-P: 10th-12th Grade

Prerequisite: Completion of French I with a “C” or better or teacher approval.

Chouette! Mes amis de l=année dernière rentrent! Welcome to the French II class where we will continue to explore the wonderful Francophone world. We will advance in our reading, writing, listening and speaking skills at an intermediate level. By the end of the school year you will be able to communicate better in a Francophone environment. Salut and Bienvenus! UC/CSU

FRENCH III-P: 11th-12th Grade

Prerequisite: Completion of French II with a grade of “C” or better or teacher approval

Bienvenus mes amis! Welcome to the French III class where we will continue to appreciate and discover more the great Francophone world. We will develop more reading, writing, listening and speaking skills at an advance level. By the end of the school year you will be capable of conversing in a Francophone environment. Salut a tous! UC/CSU

AP FRENCH-HP: 12th Grade

Prerequisite: Completion of French III with a “B” or better or teacher approval

AP French will follow the College Board curriculum to prepare students to take the AP exam in May. Students who choose not to take the AP exam will not receive the extra grade point awarded for AP and honors classes. Students taking honors or AP courses earn an extra grade point and those students who take and pass the AP exam may earn college credit. See specific colleges for their AP policy. UC/CSU

SPANISH I-P: 9th - 12th Grade

Prerequisite: “C” or better in previous English class

Students will learn the Spanish verb tense system, acquire a vocabulary of approximately one thousand words and be able to write a simple paragraph at the end of this entry-level course. UC/CSU

SPANISH II-P: 10th - 12th Grade

Prerequisite: Completion of Spanish I with a grade of “C” or better or teacher approval

(Hola y beinvenidos!) Welcome to the Spanish II class where we will further explore the wonderful Spanish-speaking world. We will advance in our reading, writing, listening and speaking skills at an intermediate level. By the end of the school year, you will be able to communicate better in a Spanish-speaking environment. (Fantástico!) UC/CSU

FOREIGN LANGUAGE Continued...

SPANISH III-P: 11th - 12th Grade

Prerequisite: Completion of Spanish II with a grade of “C” or better or teacher approval (Bienvenidos de nuevo mis amigos!) Welcome to the Spanish III class where we will continue to appreciate and discover the Spanish-speaking world. We will develop more reading, writing, listening and speaking skills at an advance level. By the end of the school year you will be capable of conversing in a Spanish-speaking environment. (Hola a todos!) **UC/CSU**

AP SPANISH-HP: 12th Grade

Prerequisite: Completion of Spanish III with a “B” or better is recommended
AP Spanish will follow the College Board curriculum to prepare students to take the AP exam in May. Students taking honors or AP courses earn an extra grade point and those students who take and pass the AP exam may earn college credit. See specific colleges for their AP policy. **UC/CSU**

GENERAL ELECTIVES

ASB: 9th-12th Grade

Prerequisite: Must be elected or appointed to office.

This course introduces students to leadership skills and techniques and offers them a way in which to put these skills into action. Student activities touch all phases of student life, from Homecoming events to being politically involved in community issues that affect the school. Students learn how to bring about constructive change by working within the educational system, organize and plan a variety of events, manage student body finances, improve communication skills, and practice parliamentary procedure.

READING SKILLS: 9th-12th Grade

Prerequisite: Placement based on STAR Reading scores.

Students who score Below basic@ or Far below basic@ on the reading portion of the STAR test will take Reading Skills instead of an elective. Materials presented in the class will help the student improve word attack skills, reading fluency, speed and comprehension.

RSP DIRECTED STUDIES: 9th-12th Grade

Prerequisite: Current I.E.P. and Resource teacher recommendation.

This course offers students an opportunity to work on I.E.P. goals and review class material. The classes are very small and have both a teacher and a classroom aide.

RSP READING/WRITING: 9th-12th Grade

Prerequisite: Current IEP and Resource teacher recommendation.

Students in the Resource program who need additional support in reading will be placed in RSP Reading. In Reading they will improve their word attack skills, increase reading speed and improve fluency and comprehension.

TEACHER'S ASSISTANT: 11th-12th Grade

Prerequisite: Teacher approval / grades and attendance will be considered.

Teacher Assistants (TAs) performs a wide variety of tasks for the teacher they choose. These tasks can include making photocopies, collating, stapling, filing, running a Scantron (grading machine), setting up for labs, cleaning up after labs, and running errands.

OFFICE ASSISTANT: 11th-12th Grade / (Voc. Ed.)

Prerequisite: Office approval

Office Aids performs a wide variety of tasks. These tasks can include making answering the phones, taking messages, collecting attendance, photocopies, collating, stapling, filing, cleaning, and running errands.

LIBRARY CLERK: 11th-12th Grade / (Voc. Ed.)

Prerequisite: Librarian's approval

Library Clerks assist the Librarian with shelving books, maintaining educational materials, fixing the photocopiers, cleaning, setting up for classes and testing, technology and general errands around campus. These skills will prepare students for library clerk positions in a college and public libraries.

MATHEMATICS

FOUNDATIONS MATH (Pre-Algebra): 9th Grade

Prerequisite: None

Foundations Math prepares students for Algebra I. Students will learn basic facts and procedures, develop the understanding and ability to use them in new and challenging problems, and acquire problem-solving strategies. Graphing, order of operations, decimal work, percentage work, probabilities, multiplication, subtraction, division and addition of integers, areas of squares, rectangles, and parallelograms, and elementary work with variables are some of the specific areas that will be covered. In addition, considerable time in the second semester will be spent reviewing the concepts necessary for successful completion of the standardized tests to be administered in April.

ALGEBRA I-P: 9th-12th Grade

Prerequisite: Completion of Foundations Math (Pre-Algebra) with a grade of “C” or better or 8th grade teacher recommendation.

The purpose of this course is to give students an introduction to the skills involved in mathematical problem-solving. By using operations with monomials, polynomials, factoring, radical expressions and exponents, students will be able to solve problems using linear and quadratic equations, and systems of equations. **UC/CSU**

ALGEBRA II-P: 10th-12th Grade

Prerequisite: Completion of Geometry with a grade of “C” or better

This course reviews and extends topics covered in Algebra I, including solving and graphing of linear and quadratic equations. In addition, this course introduces concepts necessary for subsequent mathematics courses including complex numbers, solutions of higher degree equations, graphing and analysis of equations of the conic sections, exponential and logarithmic functions, and sequences and series. **UC/CSU**

GEOMETRY-P: 9th-12th Grade

Prerequisite: Completion of Algebra I with a grade of “C” or better or 8th grade teacher recommendation.

An integrated team and individual learning course. Upon completion of the course students will be able to: use problem solving skills in data organization, looking for patterns, drawing diagrams, making systematic lists/tables, finding and solving sub problems, and writing algebraic representations to make and test conjectures about angles, lines, congruence, polygons and circles; communicate mathematical understanding in clear conjectures, explanations and/or justifications; understand the interdependence between algebra and geometry; learn a core set of geometric facts and relationships about polygons, circles, prisms congruence and measure; use coordinate geometry as often as possible, particularly for the study of area, perimeter, transformations, congruence and functions; and develop facility with ratios, particularly in the areas of similarity, right triangle trigonometry and probability. **UC/CSU**

MATH ANALYSIS-P: 11th-12th Grade

Prerequisite: Completion of Algebra II with a grade of “C” or better.

The trigonometry portion of this course involves methods of solving for unknown sides and/or angles of triangles and solving trigonometric equations. The pre-calculus portion will broaden previously learned concepts and introduce new concepts which will facilitate success in a college calculus course. **UC/CSU**

MATHEMATICS Continued...

COLLEGE MATHEMATICS: 12th Grade preferred

Prerequisite: Completion of at least Algebra II with a grade of “C” or better

This course will provide a comprehensive review of high school math concepts and introduce concepts needed for college mathematics courses. Topics to be covered will include algebra, geometry, graphing, applications of trigonometry, probability, and statistics. UC/CSU

ROP ACCOUNTING: 11th-12th Grade (Math) / (Computer Literacy) / (Voc.Ed.)

Prerequisite: Completion of Algebra I with a grade of “D” or better.

This class will provide students with a variety of experiences working with both manual and computerized accounting. The goal of this program is to give students a solid accounting foundation and to prepare them for entry level employment as an accounting clerk, accounts payable clerk, accounts receivable clerk, and for the state certificate test for accounting clerk or payroll clerk.

AP CALCULUS A/B-HP: 12th Grade

Prerequisite: Completion of Math Analysis with a grade of “C” or better.

This course prepares students for the Calculus A/B Advanced Placement Examination. Topics to be covered include functions, limits, differentiation and the associated rules, integration and the associated rules, and applications of differentiation and integration. Students taking honors or AP courses earn an extra grade point and those students who take and pass the AP exam may earn college credit. See specific colleges for their AP policy. UC/CSU

AP STATISTICS-HP: 12th Grade

Prerequisite: Completion of Math Analysis with a grade of “C” or better.

This course in statistics involves the rigor, calculations, and deductive thinking of mathematics, the real-world examples and problems of social sciences, decision-making needs of business and medicine, and the experimental procedures of the natural sciences. A student should expect to read and understand a statistics textbook, perform statistical calculations. Students taking honors or AP courses earn an extra grade point and those students who take and pass the AP exam may earn college credit. See specific colleges for their AP policy. UC/CSU

PHYSICAL EDUCATION

PE I: 9th Grade

Prerequisite: None

Physical education course I provides the foundation for high school instruction. Students develop proficient motor skills in each area of physical education; they expand their capabilities for independent learning; and they examine practices that allow for sound decision making to enhance successful participation in movement activities. The major emphasis of study includes physical fitness, and individual/dual activities.

PE II: 10th-12th Grade

Prerequisite: None

The tenth grade physical education program will give students opportunities to experience activities they may want to pursue on their own. A well-planned physical education program offers students a wide variety of activities. The emphasis of study for the tenth grade is team and individual sports, outdoor education, combative, and analysis of movement.

WEIGHT TRAINING: 11th-12th Grade

Prerequisite: None

This course is designed as an elective in physical education. Daily activities will include stretching, cardiovascular training, and an individualized weight program designed to help the student-athlete further develop his/her strength and sports-related skills. Participation in an extracurricular sport is recommended, and priority will be given to those students.

SCIENCE

AG BIOLOGY-P: 9th-11th Grade

Prerequisite: Completion of Integrated Ag. Science with a grade of “C” or better or concurrent enrollment in Geometry and prior science teacher recommendation.

This course covers Cell Biology, Biomes, Ecology, Genetics and Protein Synthesis, Evolution, Plants and Animals. All subjects covered are linked to their agricultural backgrounds using plant and animal systems. This class includes membership in the National FFA Organization. This one-year lab science is for all college-bound students but especially those with career interests in the diverse field of agriculture. **UC/CSU**

AG EARTH SCIENCE-P: 9th-11th Grade

Prerequisite: None

Ag Earth Science is a college preparatory elective science course designed to meet the following criteria: 1) Provide the student with a broad-based background and appreciation of their ever-changing planet and its place in the universe; 2) Provide quantitative analysis and experimental tools to develop the student’s scientific and critical thinking skills; 3) Provide extensive preparation and comprehensive coordination between biology, chemistry physics, and the earth sciences; 4) Prepare the student for college courses and careers in geosciences and astronomy. **UC/CSU elective only**

ANATOMY & PHYSIOLOGY-P: 10th -12th Grade

Prerequisite: Completion of Biology or Ag. Biology with a grade of “C” or better.

This is a one-year college prep lab science which focuses on the human anatomy (structure), physiology (function), and pathology (study of disease) of each of the major body systems. Students will learn about the bones, muscles, nerves, circulation and respiration of the human body and the physiological functions of human musculature. **UC/CSU**

AP BIOLOGY-P: 11th-12th Grade

Prerequisite: Completion of Chemistry with a “C” or better and concurrent enrollment in Algebra II or more advanced math.

This class follows the curriculum of the College Board. It covers: Science as a process, Evolution, Energy Transfer, Continuity & Change, Relationship of Structure to Function, Regulation, Interdependence in Nature, Science, Technology and Society. This is a college level class. College credit may be given for an AP Exam grade of 3 or higher! Check with the individual college for requirements. Students taking honors or AP courses earn an extra grade point and those students who take and pass the AP exam may earn college credit. See specific colleges for their AP policy. **UC/CSU**

BIOLOGY-P: 9th-11th Grade

Prerequisite: Completion of Integrated Ag. Science with a grade of “C” or better or concurrent enrollment in Geometry and the recommendation of prior Science teacher.

This is a first course in biology. It covers ecology, cell biology and microscopes, photosynthesis and cell respiration, genetics, cell reproduction, evolution and human biology. Human biology is explained through the hands-on dissection of a fetal pig. Emphasis is on the interactions and processes of life, and the detailed processes of genetics and DNA. Students will learn fundamentals and current research in this changing field. This course will prepare students for further study in other advanced courses in biology, environmental sciences, microbiology or chemistry. **UC/CSU**

SCIENCE Continued...

CHEMISTRY-P: 10th-12th Grade

Prerequisite: Completion of Biology or Ag. Biology with a grade of “C” or better and concurrent enrollment in Algebra II or more advanced math.

This is an introductory course in theories and concepts of modern chemistry. The course emphasizes the structure of the atom, periodic properties, bonding and common reactions, stoichiometry, solutions and equilibrium, and acid-base reactions. The student will be briefly introduced to quantum mechanics, organic formulas, and nuclear chemistry. The laboratory work will develop students reasoning power, the ability to apply chemical principles; as well as acquaint students with chemical laboratory techniques. **UC/CSU**

HONORS PHYSICS-P: 11th-12th Grade

Prerequisite: Completion of Chemistry with a grade of “C” or better and concurrent enrollment in Math Analysis or AP Calculus.

This is an introductory course in the foundations of physics. Emphasis is on the physics principles, and allows students to explore how science and mathematics are applied in the real world. Areas of study are the same as college prep physics, but students are expected to do summer work, extra independent work on additional concepts and more complicated mathematical applications. Honors students are not allowed to retake tests for any reason, and should be able to grasp concepts easily. This course will prepare students for a concentration in physics, chemistry, or engineering at the college level. Students taking honors or AP courses earn an extra grade point. **UC/CSU**

PHYSICS-P: 11th-12th Grade

Prerequisite: Completion of Chemistry with a grade of “C” or better and concurrent enrollment in Math Analysis or AP Calculus recommended.

This is an introductory course in the foundations of physics. Emphasis is on the physics principles, and allows students to explore how science and mathematics are applied in the real world. Lectures, labs, and activities involve moving objects, catapults, and construction of an electronic circuit board robot. Areas of study include motion and forces, universal gravitation, conservation of energy and momentum, heat and thermodynamics, waves, and electricity and magnetism. This course will prepare students for a concentration in physics, chemistry, or engineering at the college level. **UC/CSU**

ROP ANIMAL SCIENCE: 11th-12th Grade (Voc. Ed.)

Prerequisite: Completion of Biology or Ag. Biology with a 'D' or better.

This course will provide the student with principles in Animal Science focusing on mammalian production, anatomy, physiology, reproduction, nutrition, respiration, and genetics. Includes membership in FFA. **UC/CSU elective only**

ROP ORNAMENTAL HORTICULTURE: 11th-12th Grade

Prerequisite: Completion of Biology or Ag. Biology with a “D” or better.

This is a hands-on science class which includes membership in the National FFA Organization. Students learn: use of horticulture industry tools, greenhouse management, plant propagation, landscape design, record keeping and irrigation technology. Students will have an ongoing supervised agricultural experience in horticulture project throughout the year.

SOCIAL SCIENCE

FRESHMAN FOUNDATIONS: 9th Grade

Prerequisite: None

Freshman Foundations is an introductory course designed to enhance basic study skills and prepare the students for the rigor required in high school college prep courses. Using topics related to current events and World Geography, students will engage in higher levels of reading, writing, inquiry, oral communication and collaboration. This course builds upon ideas and standards found in the History/Social Science and English/Language Arts state frameworks. Second semester is designed to provide students with knowledge and essential tools to develop life-long positive health-related attitudes and behaviors. Topics covered include Personal Health Consumer and Community Health, Injury Prevention and Safety, Alcohol, Tobacco, and Other Drugs, Nutrition, Environmental Health, Family Living, Individual Growth and Development, and Communicable and Chronic Diseases. In addition, successful completion of Freshman Foundations will satisfy the requirements for obtaining a California DMV learners' permit. **UC/CSU**

WORLD HISTORY-P: 10th Grade

Prerequisite: None

This course is designed to provide students with an understanding of world events and cultures regarding economic, political, social, and geographical changes that have taken place in the modern era from 1715 to present. Students will learn about concepts, events and people, as well as important historical dates. This course follows state standards and ESLRS. **UC/CSU**

U.S. HISTORY-P: 11th Grade

Prerequisite: Completion of World History

This course is designed to provide students with an understanding of the events: economic, political, and societal that shaped the course of the United States from 1765 to the present. Students will learn important historical events and relevant concepts to help in their understanding historical changes at work in the U.S. from its beginning to the present. This course follows state standards and ESLRS. **UC/CSU**

AP U.S. HISTORY-HP: 11th Grade

Prerequisite: None. Completion of World History and English II with a grade of "B" or better is recommended

The advanced placement program in United States history is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in American history. The program prepares students for college by making demands upon them equivalent to those of full-year college introductory courses. Students taking honors or AP courses earn an extra grade point and those students who take and pass the AP exam may earn college credit. See specific colleges for their AP policy. **UC/CSU**

SOCIAL SCIENCE Continued...

U.S. GOVERNMENT/ECONOMICS-P: 12th Grade

Prerequisite: Completion of U.S. History or AP U.S. History

Economics is a one-semester course that will allow students to study economic principles and theories and understand how they influence economic policy on a world, national and local level. This course wills information students about Macro-economic and Micro-economic principles. In addition, students will gain further economic insight from occasional guest speakers. Government is a one-semester course that teaches students how to become effective participants in our American democratic system, it is imperative students know and understand how the government operates and what their roles in that government are. This class emphasizes the foundations of the American governmental system, the structure of the national government, and the importance of basic civil liberties. **UC/CSU**

AP U.S. GOVERNMENT & POLITICS/ECONOMICS-HP: 12th Grade

Prerequisite: None. Completion of U.S. History or AP U.S. History with a “B” or better is recommended

This course is an intensive study of the structures of government and the process of the American political system. All students are encouraged to take the AP exam in the spring. Students taking honors or AP courses earn an extra grade point and those students who take and pass the AP exam may earn college credit. See specific colleges for their AP policy. **UC/CSU**

VOCATIONAL EDUCATION

AGRICULTURE MECHANICS: 9th-12th Grade

Prerequisite: None

A comprehensive introductory shop/laboratory-oriented course that covers the essential concepts and skills related to agricultural mechanics. The student will learn to use hand/power tools and measuring devices. They will also have the opportunity to develop skills in basic electric wiring, plumbing, concrete foundation, carpentry, painting, welding, cutting, and trade skills.

AGRICULTURE SKILLS: 9th-12th Grade

Prerequisite: None

Students will be introduced to the comprehensive program of agricultural education, learn to work safely in the agriculture lab and work sites, demonstrate selected competencies in leadership through FFA and industry organizations. Topics to be covered will include horticulture, animal science, agriculture mechanics, and agriculture economics and production. Students will also develop plans for a supervised agricultural experience program.

OFFICE AIDE: 11th-12th Grade

Prerequisite: Attendance Clerk approval

Office Aides perform a wide variety of tasks. These tasks can include making answering the phones, taking messages, collecting attendance, photocopies, collating, stapling, filing, cleaning, and running errands.

ELEMENTARY/MIDDLE SCHOOL TUTOR: 11th-12th Grade

Prerequisite: None

Student must enjoy working with elementary/middle school age children. Student will be assigned to an elementary/middle school teacher to assist in the classroom and to work individually with children. Student must have transportation to and from selected school site. Student must meet with the guidance councilor before registering for class. Student grades, attendance, and school records will be reviewed prior to being selected for this course.

LIBRARY CLERK: 11th-12th Grade

Prerequisite: Librarian's approval

Library Clerks assist the Librarian with shelving books, maintaining educational materials, fixing the photocopiers, cleaning, setting up for classes and testing, technology and general errands around campus. These skills will prepare students for library clerk positions in a college and public libraries.

PUBLICATIONS / YEARBOOK: 10th-12th Grade

Prerequisite: Teacher approval / English grades will be considered.

Students in this class will be responsible for producing the yearbook. Tasks include photography, layout, advertising sales and others.

ROP ACCOUNTING: 11th -12th Grade (Computer Literacy) (Math)

Prerequisite: Completion of Algebra I with a "D" or better.

This class will provide students with a variety of experiences working with both manual and computerized accounting. The goal of this program is to give students a solid accounting foundation and to prepare them for entry level employment as an accounting clerk, accounts payable clerk, accounts receivable clerk, and for the state certificate test for accounting clerk or payroll clerk.

VOCATIONAL EDUCATION Continued...

ROP ANIMATION-P: 10th-12th Grade (Computer Literacy)

Prerequisite: Completion of Business Applications with a “D” or better or at least a junior.

This course will provide an introduction to 2-D and 3-D computer animation through project-based learning. Topics covered will include: history and principles of animation, basic design concepts, 3-D modeling, materials, cameras, lights, and rendering. Digital portfolios will be kept and will give students practice in delivering content over the web. Job skills will be emphasized.

ROP ANIMAL SCIENCE: 11th-12th Grade

Prerequisite: Completion of Biology or Ag. Biology with a 'D' or better.

This course will provide the student with principles in Animal Science focusing on mammalian production, anatomy, physiology, reproduction, nutrition, respiration, and genetics. Includes membership in FFA. **UC/CSU elective only**

ROP BUSINESS APPLICATIONS: 9th-12th Grade (Computer Literacy)

Prerequisite: None

This course is for students with little or no previous computer experience. This course will provide knowledge of the computer keyboarding as well as basic word processing functions. Students will learn practical applications for computer usage in the home, school, or workplace. Students will be provided with an opportunity for further improvement in word processing as well as an introduction to database, spreadsheet and multi-media presentation software.

ROP ELECTRONIC DESIGN & PRESENTATION: 10th-12th Grade (Computer Literacy)

Prerequisite: Completion of Business Applications with a “D” or better or at least a junior.

Electronic Design and Presentation is designed to provide the student with knowledge, skills, and hands-on application in the areas of: Graphic Design and Layout, Desktop Publishing, Web Page Design and Layout, and Multimedia Presentations. Software used includes: Microsoft Word, Microsoft PowerPoint, Adobe PageMaker, Adobe Photoshop Elements, Macromedia Flash and Macromedia Dreamweaver.

ROP ORNAMENTAL HORTICULTURE: 11th-12th Grade (Science)

Prerequisite: Completion of Biology or Ag. Biology with a grade of “D” or better.

This is a hands-on science class which includes membership in the National FFA Organization. Students learn: use of horticulture industry tools, greenhouse management, plant propagation, landscape design, record keeping and irrigation technology. Students will have an ongoing supervised agricultural experience in a horticulture project throughout the year.