

**SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT  
2008-09  
SAN LUIS OBISPO HIGH SCHOOL  
COURSE OFFERINGS AND COURSE DESCRIPTIONS**

Note: All AP and H courses count towards the cumulative weighted GPA for high school class rank.

All AP courses are approved by UC/CSU for weighted GPA.  
Honors courses are not approved by UC/CSU for weighted GPA unless designated on the College Entrance note.

<u>CODES</u>			
[CA]	Computer Applications	TP	Tech Prep
[VPA]	Visual & Performing Arts	AP	Advanced Placement
P	College Prep	ROP	Regional Occupational Program
H	Honors		

## AGRICULTURE DEPARTMENT

### AGRICULTURAL INTEGRATED SCIENCE P

[Physical Science]

*Course Code:* T100310, T100320

*Grade Level:* 9, 10, 11

*Prerequisite:* None

*Length:* Two trimesters

*College Entrance:* Pending UC/CSU (g) Elective requirement approval

*Description:* Students will be introduced to the fundamentals of biology, chemistry, earth sciences, and physics through a lecture and lab format. A research paper and long-term experiment may be required. This is a preparatory course for biology, chemistry and physics. These topics will be taught from an agricultural perspective using soil science, fertilizers, crops, and natural resources. Through these investigations, students will gain a better understanding of the world in which we live. Instruction is also given in leadership, citizenship, and project programs through department activities.

### AGRICULTURAL INTEGRATED SCIENCE H

[Physical Science]

*Course Code:* T100410, T100420

*Grade Level:* 9, 10, 11

*Prerequisite:* None

*Length:* Two trimesters

*College Entrance:* Pending UC/CSU (g) Elective requirement approval

*Description:* Students will be introduced to the fundamentals of biology, chemistry, earth sciences, and physics through a lecture and lab format. A research paper and long-term experiment may be required. This is a preparatory course for biology, chemistry and physics. Honors-level students will be expected to answer more complex questions, be an academic role model for others, perform more advanced research, and perform to higher grading standards. Topics will be taught from an agricultural perspective using soil science, fertilizers, crops, and natural resources. Instruction is also given in leadership, citizenship, and project programs through department activities.

**AGRICULTURAL BIOLOGY P****[Life Science]***Course Code:* 101310, 101320*Grade Level:* 10, 11, 12*Prerequisite:* Agricultural Physical Science P or Agricultural Physical Science H or Physical Science P or Physical Science H*Length:* Two trimesters*College Entrance:* Meets UC/CSU (d) Laboratory Science requirement*Description:* This course emphasizes biological processes from cells to organisms to ecosystems. Students will be actively engaged in laboratory investigations, concept activities and projects. A major part of the course involves learning the scientific method through research and experimental technique. A research paper and long-term experiment may be required. These topics will be taught from an agricultural perspective using livestock species, soil science, fertilizers, crops, and natural resources. Through these investigations, students will be able to relate scientific principles to themselves and to the world around them. Instruction is also given in leadership, citizenship, and project programs through department activities.**AGRICULTURAL BIOLOGY H****[Life Science]***Course Code:* 101410, 101420*Grade Level:* 10, 11, 12*Prerequisite:* Agricultural Physical Science P or Agricultural Physical Science H or Physical Science P or Physical Science H*Length:* Two trimesters*College Entrance:* Meets UC/CSU (d) Laboratory Science requirement*Description:* This course emphasizes biological processes from cells to organisms to ecosystems. Students will be actively engaged in laboratory investigations, concept activities and projects. A major part of the course involves learning the scientific method through research and experimental technique. A research paper and long-term experiment may be required. The honors-level course is differentiated through depth, complexity and expectation. Emphasis is placed on advanced research, higher-level thinking skills and academic role modeling. Topics will be taught from an agricultural perspective using livestock species, soil science, fertilizers, crops, and natural resources. Instruction is also given in leadership, citizenship, and project programs through department activities.**ROP AGRICULTURE ECONOMICS AND GOVERNMENT POLICY P****[American Government & Economics]***Course Code:* 280010, 280020*Grade Level:* 11,12 or age 16*Prerequisite:* None*Length:* Two trimesters*College:* Meets UC/CSU (g) Elective requirement*Description:* America's agriculture industry is the mainstay of the United States economy. Understanding economics and regulations of this diverse industry is critical to its continued success and prosperity. Students will study the constitution, governments, federalism, the 1991 US Farm Bill, microeconomics, macroeconomics, economic systems, and agriculture marketing. This class will run its own business, manage other businesses, and visit many others to gain first hand knowledge of the industry. Computers will be used extensively to learn economic analysis and interpolation.**ELECTIVES IN AGRICULTURE****THESE COURSES WILL NOT TAKE THE PLACE  
OF THE REQUIRED SCIENCE COURSES.****ROP AGRICULTURE LEADERSHIP***Course Code:* 280410, 280420*Grade Level:* 11, 12 or age 16*Prerequisite:* None*Length:* Two trimesters, repeatable*Description:* The purpose of this course is to accent agriculture education and the Future Farmers of America (FFA) organization in developing young people to be premier leaders with a vision. Critical thinking and evaluation skills will be an important aspect of the curriculum. Just as important will be the incorporation of articulation skills, both written and verbal. Students will develop and enhance their leadership skills through self-enhancement, goal setting, cooperative learning, speech proficiency, parliamentary procedures, book reviews, and presentations. To maximize critical thinking skills, current events in agriculture will be brought in by the students and used in a decision-making forum. This process will incorporate both verbal and written skills.

### **AGRICULTURAL MECHANICS I - BASIC MECHANICS**

*Course Code:* 112110, 112120

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* Two trimesters

*Description:* Class and shop instruction is given in basic arc and gas welding, metalwork, tool identification, tool maintenance, and use of hand and power tools. Wood and metal fabrication projects will be required. Students enrolled in Agricultural Mechanics I – Basic Mechanics will find the class more meaningful with an ornamental horticulture or agriculture science background. Students are encouraged to build practical projects and do simple construction-type jobs. Instruction is also given in leadership, citizenship and project programs through department activities.

### **AGRICULTURAL MECHANICS II - AGRICULTURAL CONSTRUCTION**

*Course Code:* 112210, 112220

*Grade Level:* 10, 11, 12

*Prerequisite:* Agricultural Mechanics I – Basic Mechanics or consent of teacher

*Length:* Two trimesters

*Description:* Class and shop instruction is given in basic electricity, plumbing, masonry, carpentry, drafting, drawing, and surveying. Special emphasis is placed on agricultural construction projects and career education. Instruction is also given in leadership, citizenship and project programs through department activities.

### **AGRICULTURAL MECHANICS III - SMALL GAS ENGINE AND EQUIPMENT MAINTENANCE**

*Course Code:* 112310, 112320

*Grade Level:* 10, 11, 12

*Prerequisite:* Agricultural Mechanics II or consent of teacher

*Length:* Two trimesters

*Description:* Class and shop instruction is given in repair, maintenance, trouble-shooting, identification and uses of small engines. Basic instruction is also provided in diesel and hydraulic systems. Fabrication of agriculturally related projects along with equipment maintenance is included. Instruction is also given in leadership, citizenship and project programs through department activities.

### **AGRICULTURAL MECHANICS IV - PROJECT DESIGN, FABRICATION, CONSTRUCTION, AND REPAIR**

*Course Code:* 112410, 112420

*Grade Level:* 10, 11, 12

*Prerequisite:* Agricultural Mechanics III or consent of teacher

*Length:* Two trimesters

*Description:* Class and shop instruction is given in design, laboratory practices, and reading blueprints and plans. Students work independently on special projects dealing with design, fabrication, construction, and repair. Instruction is also given in leadership, citizenship and project programs through department activities.

### **ORNAMENTAL HORTICULTURE I - OH I**

*Course Code:* 115110, 115120

*Grade Level:* 9, 10, 11, 12 (Priority given to 9th and 10th grade students)

*Prerequisite:* None

*Length:* Two trimesters

*Description:* Class and laboratory instruction is given in basic home gardening, plant propagation, pest control, pruning, and fertilization. Special emphasis is placed on plant identification and landscaping. Instruction is also given in leadership, citizenship, career education, and project programs through department activities.

### **ORNAMENTAL HORTICULTURE - NURSERY MANAGEMENT - OH II**

*Course Code:* 115210, 115220

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Ornamental Horticulture I or consent of teacher

*Length:* Two trimesters

*Description:* Advanced class and laboratory instruction is given in the propagation of commercially important plants. Fertilization, diseases and pests are also studied. Nursery management practices become real through the use of the lab facilities. Instruction is also given in leadership, citizenship, career education, and project programs through department activities.

**ROP FLORAL DESIGN**

*Course Code:* 280910, 280920

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* Ornamental Horticulture I or Agricultural Biology

*Length:* Two trimesters

*Description:* This course gives the student a review of the floriculture industry in California. The major emphasis will be on learning and/or updating skills for cut flower and potted plant selection and care, floral design principles, corsage construction, shop management, and job-seeking procedures. This course is designed to lay the foundation for an entry-level position in the floriculture industry and/or community classroom experience.

**ROP FLORAL DESIGN FIELD EXPERIENCE**

*Course Code:* 281010, 281020

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* Completion of or concurrent enrollment in ROP Floral Design

*Length:* Two trimesters

*Description:* This course gives the student "hands-on" knowledge of the floral industry by allowing the student to work in the community with florists. The major emphasis will be on learning and/or updating skills for cut flower and potted plant selection and care, floral design principles, corsage construction, shop management, and customer service skills.

**ROP SMALL ANIMAL SCIENCE/PRE-VETERINARY****[Life Science]**

*Course Code:* 280710, 280720

*Grade Level:* 11, 12 or age 16

*Prerequisite:* None

*Length:* Two trimesters

*Description:* This course includes job-specific training for care and management of small animals, such as dogs, rabbits, poultry, goats, and fish. The skills include handling, health care, nutrition, anatomy, diseases, surgical procedures, and housing for small animals. Students will work with professionals in the field and prepare for continued training as a veterinary technician or animal science specialist at the university level. Instruction is also given in leadership, citizenship and project programs through department activities.

**ROP LARGE ANIMAL MANAGEMENT**

*Course Code:* 280610, 280620

*Grade Level:* 11, 12 or age 16

*Prerequisite:* None

*Length:* Two trimesters

*Description:* This course will offer general orientation in the many areas of animal science.

It will provide information, activities and skills in the areas of scientific method, mammalian production and reproduction, health care, anatomy, physiology, nutrition, genetics and production management. Emphasis is placed on large animals that are most important to human culture as we know it. Additional emphasis will be placed on industry practices to include record keeping, public relations, and communications.

**ROP AG CONSTRUCTION**

*Course Code:* 280810, 280820

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* Agricultural Mechanics II – Agriculture Construction, or Metal I, or Basic Welding

*Length:* Two trimesters

*Description:* Students will be able to expand on their skills developed in previous metals and welding classes. Students will be able to select a specific area of interest which will enable them to construct projects of any size.

# ART DEPARTMENT

## DESIGN I P

[VPA]

*Course Code:* 120100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* One trimester

*College Entrance:* Completing Design I P and Design II P meets the UC/CSU (f) Visual and Performing Arts requirement.

*Description:* Design I provides an introduction to the elements and principles of visual design through a series of 2-D and 3-D projects in various media. Students develop a basic design vocabulary utilizing the art elements of line, shape, form, space, and color emphasis with the media of pencil, pen, foil, copper, cardboard, plaster, wire, paint and a variety of papers and boards. Projects will include design modules, multi-part designs using surface patterning, and handmade books utilizing composition principles such as balance, emphasis and rhythm. Students will develop the ability to think abstractly, creating personal landscape sculptures using shape, form, and space to demonstrate their response to a favorite place or object. This will serve as a foundation for more complex work such as articulated animal sculptures.

## DESIGN II P

[VPA]

*Course Code:* 120200

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Design I P

*Length:* One trimester

*College Entrance:* Completing Design I P and Design II P meets the UC/CSU (f) Visual and Performing Arts requirement.

*Description:* Design II continues the exploration of the elements and principles of visual design begun in Design I in a series of larger-scale, more technically demanding projects. Students will apply this knowledge and skill in creating original art works based on personal experiences or responses demonstrating an understanding of the symbolic and expressive use of color. Students will experiment with abstract, representational and expressive approaches to composition and content. They will express their ideas and thoughts through a variety of media and techniques such as cut paper appliqué, reverse appliqué, acrylics, foam core, plaster, and the use of various non-traditional and recycled materials as design components. Projects will include designing masks or headpieces, and developing modules and functional objects using lightweight materials. Students will create life-size 3-D figures in everyday poses. Students will also be introduced to computer design utilizing the human face and figure to create large-scale 2-D photo montages.

## FREEHAND DRAWING I P

[VPA]

*Course Code:* 121100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None (Design I/II recommended)

*Length:* One trimester

*College Entrance:* Completing Freehand Drawing I P and Freehand Drawing II P meets the UC/CSU (f) Visual and Performing Arts requirement.

*Description:* Freehand Drawing I P is an introductory drawing course. Emphasis is on improving skills in observing, analyzing, composing and recording objects and people from life.

## FREEHAND DRAWING II P

[VPA]

*Course Code:* 121200

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Freehand Drawing I P or consent of teacher

*Length:* One trimester, repeatable

*College Entrance:* Completing Freehand Drawing I P and Freehand Drawing II P meets the UC/CSU (f) Visual and Performing Arts requirement.

*Description:* Freehand Drawing II P is an advanced drawing class. Emphasis is on composition, design, and illustration techniques, while developing a more creative personal drawing style. Finished projects should be portfolio quality.

**CERAMICS I P****[VPA]***Course Code:* 122100*Grade Level:* 10, 11, 12*Prerequisite:* None*Length:* One trimester*College Entrance:* Completing Ceramics I P and Ceramics II P meets the UC/CSU (f) Visual and Performing Arts requirement.*Description:* Ceramics I P is a beginning course designed to teach students the nature of clay, forming methods, and the construction and operation of kilns. Emphasis will be placed on ceramic design, materials, clay, glazes, and firing.**CERAMICS II P****[VPA]***Course Code:* 122200*Grade Level:* 10, 11, 12*Prerequisite:* Ceramics I P*Length:* One trimester*College Entrance:* Completing Ceramics I P and Ceramics II P meets the UC/CSU (f) Visual and Performing Arts requirement.*Description:* Ceramics II P is an intermediate course in which the student is encouraged to refine construction, forming, and decorative design skills. Emphasis will be placed on advanced glazing and construction of projects using multiple shapes. Individual development will be stressed.**CERAMICS III P****[VPA]***Course Code:* 122300*Grade Level:* 11, 12*Prerequisite:* Ceramics II P and Freehand Drawing I P*Length:* One trimester, repeatable with consent of teacher*College Entrance:* Meets UC/CSU (g) Elective requirement*Description:* Ceramics III P is an advanced course in ceramics in which the student will refine ceramics skills, be required to make a wheel project or equivalent advanced project, mix glazes, and load kilns.**PAINTING I P****[VPA]***Course Code:* 123100*Grade Level:* 10, 11, 12*Prerequisite:* Design I P and/or Freehand Drawing I P or consent of teacher*Length:* One trimester*College Entrance:* Completing Painting I P and Painting II P meets the UC/CSU (f) Visual and Performing Arts requirement.*Description:* This course is designed to introduce the student to a variety of painting media, methods, and materials, with emphasis on watercolor. Students will study both traditional and experimental painting styles with areas of work in color, value, composition, and art history.**PAINTING II P****[VPA]***Course Code:* 123200*Grade Level:* 10, 11, 12*Prerequisite:* Painting I P or consent of teacher*Length:* One trimester, repeatable*College Entrance:* Completing Painting I P and Painting II P meets the UC/CSU (f) Visual and Performing Arts requirement.*Description:* Specialization in this course is in watercolors and acrylics. Experimental problems are designed with emphasis on independent study, research, and history of painting.**PRINTMAKING I P****[VPA]***Course Code:* 127100*Grade Level:* 9, 10, 11, 12*Prerequisite:* Design I P and/or Freehand Drawing I P or consent of teacher*Length:* One trimester*College Entrance:* Completing Printmaking I P and Printmaking II P meets the UC/CSU (f) Visual and Performing Arts requirement.*Description:* Printmaking is an introductory course applying design and printing skills employed/used in the following printing operations: monoprinting, relief, and etching. Approach is from a Fine Arts point of view, including art history, and does not include a commercial focus.

**PRINTMAKING II P****[VPA]***Course Code:* 127200*Grade Level:* 9, 10, 11, 12*Prerequisite:* Printmaking I P*Length:* One trimester, repeatable*College Entrance:* Completing Printmaking I P and Printmaking II P meets the UC/CSU (f) Visual and Performing Arts requirement.*Description:* This course will introduce students to the relationship between graphic art and fine art. Students will solve creative problems, and use the medium of relief and intaglio printing as a vehicle for creative expression incorporating the elements of art and the principles of design. Students will create original designs using traditional as well as digital methods. Students will then use a variety of printing techniques to make fine art and graphic related art (posters, calendars, etc.).**AP ART HISTORY****[VPA]***Course Code:* 129110, 129120*Grade Level:* 11, 12*Prerequisite:* Design I P and/or Freehand Drawing I P and one other art course*Length:* Two trimesters*College Entrance:* Meets UC/CSU (f) Visual and Performing Arts requirement*Description:* This course will combine an historical survey of man's achievements in art from pre-historic to contemporary times. It will include a studio experience (painting, drawing, sculpture) in order to give the student an overview of artistic styles, including primitive art, cubism, pointillism, impressionism, abstract expressionism, contemporary, and new trends. Appreciation of both creative and cultural expression and craftsmanship will be emphasized.**ROP ELECTRONIC MEDIA P****[VPA]***Course Code:* 287710, 287720*Grade Level:* 11, 12 or age 16*Recommended Prerequisite:* Computer Applications or pass Computer Proficiency Test; Design I P and/or Freehand Drawing I P*Length:* Two trimesters*College Entrance:* Meets UC/CSU (f) Visual and Performing Arts requirement*Description:* Electronic Media is designed to provide the student with knowledge, skills, and hands-on application in areas of graphic digital imagery. Students explore digital technology in the areas of photographic imaging, video filmmaking, video editing, and multimedia authoring and presentations. This course follows the Visual and Performing Arts course standards to provide a meaningful experience and breadth of knowledge of the Arts. Particular attention is given to the student's recognition and application of the relationships found with the expressive communication of the visual arts.

## **BUSINESS/COMPUTER EDUCATION DEPARTMENT**

**ACCOUNTING I***Course Code:* 133100*Grade Level:* 9, 10, 11, 12*Prerequisite:* None*Length:* One trimester*Description:* This is an introductory course that covers the fundamentals of double entry accounting for proprietorship and partnerships. Automated accounting is integrated into chapter activities.**ACCOUNTING II***Course Code:* 133200*Grade Level:* 9, 10, 11, 12*Prerequisite:* Accounting I*Length:* One trimester*Description:* This course continues the fundamentals of double entry accounting with a concentration on businesses formed as corporations. Automated accounting activities continue.

### **JOB ORIENTED BUSINESS SKILLS (JOBS)**

*Course Code:* 136100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* One trimester

*Description:* This course follows the steps necessary for success on any job. Individualized units are designed to help students meet entry-level job standards. Areas of instruction include: operating adding/calculating machines, career exploration, applying for jobs, interviewing, working with people, following instructions, computer literacy, decision-making, keeping simple business records, and cost of owning and operating an automobile.

### **INTRODUCTION TO COMPUTERS**

*Course Code:* 140100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* One trimester

*Description:* This course is designed for students with little or no previous computer experience, or those students not meeting the district computer proficiency levels. Students will learn keyboarding skills as well as basic word processing, spreadsheet and database skills. Techniques in printing and formatting documents will be emphasized.

### **COMPUTER APPLICATIONS**

**[CA]**

*NOTE:* This course may be taken to satisfy the computer applications requirement.

*Course Code:* 140200

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None; however, prior computer experience with a word processor, database, and spreadsheet; keyboarding or typing skills are recommended

*Length:* One trimester

*Description:* Students will review the basics of Word, Excel, and PowerPoint. In addition, students will learn to create, query, and make reports using Access. Students will learn to search for information on the Internet, and to make informed decisions about the quality of information found. Students will learn to use HyperStudio to make non-linear presentations. Career Education objectives will be included in this course.

### **COMPUTER TECHNICIAN I**

*Course Code:* 141100

*Grade Level:* 9, 10, 11, 12

*Prerequisites:* Computer Applications or the Computer Literacy Exam

*Length:* One trimester

*Description:* Students will learn basic operating system commands, software installation, and hardware maintenance and troubleshooting.

### **DESKTOP PUBLISHING**

*Course Code:* 142100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Computer Applications or the Computer Literacy Exam

*Length:* One trimester

*Description:* This course is designed for students interested in learning advanced desktop publishing skills. By combining creative writing and commercial graphics, students will design newsletters and communications for publication.

### **PROGRAMMING I P**

*Course Code:* 143100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Must have completed Algebra I with a grade of "C" or better, or consent of instructor.

*Length:* One trimester

*College Entrance:* Meets UC/CSU (g) Elective requirement

*Description:* This course is designed for students with little or no previous computer experience. Students will develop problem-solving techniques by writing and analyzing computer programs.

### **PROGRAMMING II P**

*Course Code:* 143200

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Programming I P or consent of instructor

*Length:* One trimester

*College Entrance:* Meets UC/CSU (g) Elective requirement

*Description:* This course is designed to have students learn more programming skills including additional commands and functions. Special attention will be given to processing data at the machine level. Students will become knowledgeable in the use of high-resolution graphics, generation of sound, special printer functions, and the development of text files. Each student enrolled in this course will analyze, write, and debug computer programs. Students will be encouraged to work at a level of difficulty that will challenge their individual ability and interest.

### **PROGRAMMING III P**

*Course Code:* 143300

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Programming II P

*Length:* One trimester, repeatable

*College Entrance:* Meets UC/CSU (g) Elective requirements

*Description:* Students will learn to program using built in controls and classes. Emphasis will be placed on programming algorithms. Students will learn to integrate Microsoft Office applications and Visual Basic Net. The course will explore advanced algorithms using process driven programming and pointers within the Visual Basic net programming language, and generalizing how they are used in other high-level languages. Students repeating for credit will continue programming learning activities in a self-directed environment. This course is aligned with the Information Services and Technology Strand of the California Career Technical Standards.

### **DIGITAL PUBLISHING**

*Course Code:* 142300

*Grade Level:* 10, 11, 12

*Prerequisite:* Desktop Publishing or Programming I P, both recommended

*Length:* One trimester, repeatable up to three times for credit

*Description:* Students will learn to create and edit graphics for digital use. Students will learn to create World Wide Web pages using a variety of tools including HTML, Front Page, and Netscape Communicator. Students will create PDF files for WWW viewing. Students will learn to use a non-linear presentation program with advanced capabilities. If repeated for credit, students will work on high-end projects, such as the creation of teaching modules, teacher web pages, school CD-ROM tour, and the school web page.

### **ROP FLASH ANIMATION BASICS**

*Course Code:* 288700

*Grade Level:* 11, 12 or age 16

*Prerequisite:* Programming I P and II P or Webpage Design

*Length:* One trimester

*Description:* This course will introduce computer animation using Adobe Macromedia Flash. Students will learn about the principles of animation, basic animation design concepts, computer animation basics, and action scripting. The class will also explore Flash based web pages and the use of Flash to create educational tutorials.

### **ROP AP COMPUTER SCIENCE in JAVA**

*Course Code:* 288310, 288320

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* 1) Programming I P and concurrent enrollment in Algebra II P or successful completion of Algebra II P OR 2) successful completion of Algebra II Honors

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (g) Elective requirement

*Description:* Students will be able to program in Java 5 using the activities, techniques, and constructs listed in the AP Computer Science Topic Outline, the official documentation for an AP Computer Science course published by The College Board. Students will have the option of taking the AP Computer Science Test, A or AB, recognized by many colleges and universities as the equivalent of an introductory level programming class.

### **ROP COMPUTER SERVICE TECHNOLOGY TP**

*Course Code:* 288110, 288120

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* Computer Technician I recommended

*Length:* Two trimesters

*College Entrance:* This course is eligible for Cuesta College Articulated Credit.

*Description:* Computer Service Technology will teach students how to diagnose and repair computer hardware and how to fix software and hardware problems. Students successfully completing the course will be able to perform the task of a Computer Repair Technician. Students will train for, and the curriculum is aligned to, CompTIA's A+ industry standard computer technician certification, although receiving certification is not part of the course. This course covers the A+ Essentials core and the 220-604 Technician exam.

### **ROP COMPUTER SERVICE TECHNOLOGY FIELD EXPERIENCE**

*Course Code:* 288210, 288220

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* Computer Applications with a "C" or better and completion of or concurrent enrollment in ROP Computer Service Technology

*Length:* Two trimesters

*Description:* This course will concentrate on the "hands-on" aspects of computer repair by allowing the student to concentrate on actual repair experience in the field. Emphasis will be placed on "service calls" with increasing responsibility, until the student reaches a point where field repairs can be made on-their-own. Proper field techniques such as pre-diagnostics and paperwork, proper handling of the customer repairs and follow-up, warranty service options and parts inventory ordering will also be covered. More advanced topics, beyond the Computer Service Technology course, will include advanced network troubleshooting, electronic component repair techniques and customer contact techniques.

### **ROP INTRODUCTION TO COMPUTER NETWORKING**

*Course Code:* 288710, 288720

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* ROP Computer Service Technology

*Length:* Two trimesters

*Description:* This course introduces students to the equipment, operating systems, applications and wiring configurations, needed to set up computer networks. Students will learn how to set up, maintain, and troubleshoot computer networks. A clear understanding of the architecture of computer networks will allow these students to excel. Students will train for, and the curriculum is aligned to, CompTIA's Network +, Sever+, MCSE, and Linux+ industry standard network technician certification, although receiving certification is not part of the course.

### **ROP WEBPAGE**

**[VPA]**

*Course Code:* 288410, 288420

*Grade Level:* 11, 12 or age 16

*Prerequisite:* None

*Length:* Two trimesters

*Description:* This course teaches students how to create web pages and to manage other forms of electronic communication. Students will develop web sites in various styles using a variety of technologies in order to learn a wide range of design skills. Students will work with teachers, staff, and community members to increase communication and to enhance the learning environment. The class will include both a classroom and a laboratory phase. Design techniques and new technologies will be introduced in lecture and then applied in the creation of web sites. The web sites will increase in complexity and creativity as the year progresses.

### **ROP VIRTUAL ENTERPRISE/ECONOMICS OF BUSINESS OWNERSHIP P**

**[Economics]**

*Course Code:* 288510, 288520

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* Computer Applications

*Length of Course:* Two trimesters

*College:* Meets UC/CSU (g) Elective requirement

*Course Description:* Students set-up and run a virtual business. The students determine the nature of their business, its products and services, its management and structure, and learn the daily operations of a business under the guidance of a consultant with the support of a real business partner. Emphasis will be placed in using current business software packages and Internet for business transactions. A focus will be on general office operations, keyboarding, accounting, word processing, computer operations, and employability skills.

# ENGLISH DEPARTMENT

## **ENGLISH 9 P**

*Course Code:* 150110, 150120

*Grade Level:* 9

*Prerequisite:* English 8 A or English 8 ACC

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (b) English requirement

*Description:* English 9 P is a comprehensive English/language arts program which focuses on responding to literature through reading, writing, speaking, and listening. It is a literature-based course which emphasizes the writing process, both creative and expository. This course is designed to enhance students' lifetime communication skills. Career Education objectives will be included in this course.

## **ENGLISH 9 H**

*Course Code:* 150210, 150220

*Grade Level:* 9

*Prerequisite:* English 8 A, English 8 ACC, or teacher recommendation

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (b) English requirement

*Description:* English 9 H is an accelerated English/language arts program which hones competencies in reading, writing, speaking, and listening. English 9 H is a literature-based course, which emphasizes the writing process, both creative and expository. This course is designed to improve students' ability to think critically through interpretation of literature. Career Education objectives will be included in this course.

## **ENGLISH 10 P**

*Course Code:* 151110, 151120

*Grade Level:* 10

*Prerequisite:* English 9 P or English 9 H

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (b) English requirement

*Description:* English 10 P is a world literature survey class. Students will read short stories, non-fiction, novels, drama, and poetry focusing on interpretation of the literature through essay writing and discussion. Speech, creative writing, and research paper units are included. English 10 P emphasizes the writing process and grammar through usage for lifetime communication skills. Career Education objectives will be included in this course.

## **ENGLISH 10 H**

*Course Code:* 151210, 151220

*Grade Level:* 10

*Prerequisite:* English 9 P, English 9 H, and/or teacher recommendation

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (b) English requirement

*Description:* English 10 H is an accelerated world literature class focusing on analysis of literature through writing essays and discussion. Students will apply principles of organization, clarity, purpose, audience, usage, mechanics, diction, and spelling in their compositions. Students will generate original theses supported by evidence. Units on creative writing (short stories and poems), the research paper, and speech are included. Career Education objectives will be included in this course.

## **ENGLISH 11 P**

*Course Code:* 152110, 152120

*Grade Level:* 11

*Prerequisite:* English 10 P or English 10 H

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (b) English requirement

*Description:* English 11 P surveys American literature from 1604 to the present. The course will focus on literary analysis through research, composition, and discussion. Students will write formal and informal essays, conduct research, and participate in oral language activities.

## **AP ENGLISH LANGUAGE AND COMPOSITION**

*Course Code:* 152310, 152320

*Grade Level:* 11

*Prerequisite:* English 10 P or English 10 H, teacher recommendation, writing sample and interview

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (b) English requirement

*Description:* English Language AP is an advanced class for the high school junior with an emphasis on American literature and composition. Students are involved in both the study and practice of writing and the study of rhetorical and analytical analysis of literature: fiction and non-fiction. Students will learn to use the modes of discourse and to recognize the assumptions underlying various rhetorical strategies. Through speaking, listening, and reading, but chiefly through writing, students will become aware of the resources of language. Each student is expected to take the national Advanced Placement Examination in Language and Composition given in the spring of the school year. Upon successful completion of this test, college credit may be granted.

## **ENGLISH 12 P**

*Course Code:* 153110, 153120

*Grade Level:* 12

*Prerequisite:* English 11 P or AP English Language

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (b) English requirement

*Description:* English 12 P provides a comprehensive survey of British literature. Writing and oral language activities will include critical analysis and evaluation of literature, timed in-class essays, speeches, and a research paper. Emphasis is on developing critical thinking skills in writing and in class discussions, and drawing conclusions and evaluations from research. Also, English/language arts skills will be further developed. Career Education objectives will be included in this course.

## **AP ENGLISH LITERATURE AND COMPOSITION**

*Course Code:* 153210, 153220

*Grade Level:* 12

*Prerequisite:* English 11 P or AP English Language P and teacher recommendation, writing sample and interview

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (b) English requirement

*Description:* English Literature AP is an advanced class for the high school senior with an emphasis on British/world literature and composition. Students are involved in both the study and practice of writing and the study of literature. They will learn to use the modes of discourse and to recognize the assumptions underlying various rhetorical strategies. Through speaking, listening, and reading, but chiefly through writing, students will become aware of the resources of language. Each student is encouraged to take the national Advanced Placement Examination given in the spring of the school year. Upon successful completion of this test, college credit may be granted.

# **ELECTIVES IN ENGLISH**

**THESE COURSES WILL NOT TAKE THE PLACE  
OF THE REQUIRED ENGLISH COURSES.**

## **CAHSEE LANGUAGE ARTS**

*Course Code:* 162400

*Grade Level:* 10, 11, 12

*Prerequisite:* None

*Length of Course:* One trimester (TX 1)

*Course Description:* Students will prepare for the California High School Exit Exam, based upon the State English/language arts standards.

## **CREATIVE WRITING P**

*Course Code:* 161200

*Grade Level:* 10, 11, 12

*Prerequisite:* Grade of B or better in English for the previous year

*Length:* One trimester, repeatable

*College Entrance:* Meets UC/CSU (g) Elective requirement

*Description:* Creative Writing is a class to improve skills for students who enjoy writing stories, poems, skits, and other imaginative writing. Students will be required to share drafts orally and in written form to develop each student's unique style and voice.

## **CLASSICAL AND MYTHOLOGICAL LITERATURE P**

*Course Code:* 161100

*Grade Level:* 11, 12

*Prerequisite:* None

*Length:* One trimester

*College Entrance:* Meets UC/CSU (g) Elective requirement

*Description:* This literature-based course focuses on mythologies of various cultures and historical periods, concentrating on oral traditions, cultural beliefs, and religions.

## **ENGLISH LANGUAGE AP SEMINAR**

*Course Code:* 152330

*Grade Level:* 11

*Prerequisite:* Prior two trimesters of AP English Language

*Length:* One trimester (TX 3)

*Description:* The English Language Seminar AP course will provide students with extensive practice for the Advanced Placement Language Examination offered in May. Students will write weekly in-class AP essay prompts and will be trained in essay scoring. In addition to composition and analysis, the students will complete weekly AP multiple-choice exams, will write multiple-choice questions, and learn test-taking strategies for not only the multiple-choice section, but the essay section as well.

## **PEER COMMUNICATIONS**

*Course Code:* 162100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* One trimester

*Description:* Peer Communications is a class designed to help students look at their own personal issues and concerns by developing and strengthening communication skills through group discussion, interaction, writing, and reading. Students will learn decision-making, problem solving, listening, questioning, and basic communication skills. Students will be encouraged to assimilate and use these skills in daily life situations with self, family, peers, and community. The majority of work will take place in class. In addition, community service will be required.

## **PEER HELPING I**

*Course Code:* 162200

*Grade Level:* 10, 11, 12

*Prerequisite:* Peer Communications or consent of teacher, with two appropriate adult recommendations and an interview

*Length:* One trimester (**zero period**)

*Description:* Peer Helping will provide students the opportunity to refine and to practice communication, decision-making, and problem-solving skills. Students will use these skills to act as peer facilitators in the areas of attendance, tutoring, new student orientation, other site programs, and elementary school Big Brother and Big Sister programs. The focus will be on working with at-risk students. Through involvement with others, students will be provided the opportunity to develop personal growth and self-confidence. Every peer helper is required to attend a weekend retreat.

## **PEER HELPING II**

*Course Code:* 162300

*Grade Level:* 10, 11, 12

*Prerequisite:* Peer Helping I, consent of teacher, interview and selection process

*Length:* One trimester, repeatable (**zero period**)

*Description:* Students in Peer Helping II will refine and practice helping and support skills. Students will provide helping services both at the school site and in the community. In addition, extended hours of community service must be completed as per teacher approval. Students will facilitate and develop classroom and community service activities and instruction as appropriate.

## **SPEECH I**

[VPA]

*Course Code:* 163100

*Grade Level:* 9 with consent of teacher, 10, 11, 12

*Prerequisite:* None

*Length:* One trimester

*Description:* Speech will cover all aspects of physical delivery as well as written and verbal organization, and listening skills. Presentations will include speeches to inform, demonstrate, persuade, and entertain as well as oral interpretation and panel discussion.

**THEATRE I P****[VPA]***Course Code:* 164100*Grade Level:* 9, 10, 11, 12*Prerequisite:* None*Length:* One trimester*College Entrance:* Completing Theatre I P and Theatre II P meets the UC/CSU (f) Visual and Performing Arts requirement.*Description:* Theatre I P is a comprehensive beginning acting class. This class will include training in movement, voice, character development, and play analysis. Students will actively participate in exercises and classroom performances, as well as read and write about plays.**THEATRE II P****[VPA]***Course Code:* 164200*Grade Level:* 9, 10, 11, 12*Prerequisite:* Theatre I P and consent of teacher*Length:* One trimester*College Entrance:* Completing Theatre I P and Theatre II P meets the UC/CSU (f) Visual and Performing Arts requirement.*Description:* Theatre II P is a skill-building class, reinforcing and developing the techniques learned in Theatre I P. This class will include training in stage movement, character analysis, character development, voice, and self-direction. Students will actively participate in exercises and performances, as well as read, discuss, and write about plays.**THEATRE III P****[VPA]***Course Code:* 164300*Grade Level:* 10, 11, 12*Prerequisite:* Theatre II P and consent of teacher*Length:* One trimester, repeatable*College Entrance:* Meets UC/CSU (g) Elective requirement*Description:* Theatre III P is a performance class improving the techniques learned in Theatre II P. This class will include advanced acting, directing, stage movement, improvisation, voice training, dramatic criticism, study of literature, theatre history, and participation in performance.**NEWSPAPER PRODUCTION***Course Code:* 165200*Grade Level:* 10, 11, 12*Prerequisite:* Consent of teacher*Length:* One trimester, repeatable*Description:* Newspaper Production is an advanced course designed to allow students to use the skills involved in writing and producing the school newspaper.**YEARBOOK PRODUCTION***Course Code:* 165410, 165420, 165430*Grade Level:* 11, 12*Prerequisite:* Consent of teacher*Length:* Two trimesters, repeatable*Description:* Students enrolled in this course will plan, sell, and distribute the school yearbook. Students will practice project planning, writing, design, layout, sales, advertising, and business management skills related to the production of the yearbook. NOTE: Students assigned to positions as editors or business manager on the yearbook staff may enroll in two periods of Yearbook Production each trimester. Ten units of credit will be granted for two-period enrollment.**9-12 STRATEGIC READING***Course Code:* 166310, 166320*Grade Level:* 9*Prerequisite:* Placement by counselor*Length:* Two trimesters, repeatable*Description:* Strategic Reading is a course designed to improve the reading skills of students who have not yet become grade-level readers. Emphasis is upon increasing students' reading comprehension strategies, application of flexible decoding strategies, reading vocabulary, and metacognitive strategies for reading both narrative and informational text with comprehension and fluency. This class is to be taken **in addition** to a student's regular English class.

# ENGLISH LEARNERS' PROGRAM

## **ENGLISH LANGUAGE DEVELOPMENT (ELD I, II, III, IV)**

*Grade Level:* 9, 10, 11, 12

*Description:* English Language Development instruction is based on the English Language Development Standards. Students learn to be proficient listeners, speakers, readers and writers of the English language. All ELD courses incorporate literature, critical thinking, the writing process, grammar, and study skills instruction.

## **ENGLISH LEARNER READING (EL Reading I/II, EL Reading III/IV)**

*Grade Level:* 9, 10, 11, 12

*Description:* This course is designed to supplement English Language Development classes. It helps students to improve their reading skills by addressing the critical areas of: listening, word recognition, vocabulary, comprehension, study skills, personal reading, and writing. This course also teaches skills to prepare students for the California High School Exit Exam.

## **ENGLISH LEARNER CONTENT COURSES (US History, World History , Biology)**

*Description:* Content area courses for English Learners are taught in English with SDAIE (Specially Designed Academic Instruction in English) techniques and Spanish language support. The curriculum parallels the corresponding content area courses.

# FOREIGN LANGUAGE DEPARTMENT

## **AMERICAN SIGN LANGUAGE I P**

*Course Code:* 184110, 184120

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* American Sign Language I is an introductory course to the visual-gestural language used by deaf people in the United States. Emphasis will be placed on basic sign vocabulary development, grammatical structure, and the manual alphabet. Students will gain an understanding and appreciation of "deaf" culture and history, as well as an awareness of assisting devices technologies which are available. This class is designed for any student interested in developing the basic skills necessary to communicate with deaf people.

## **AMERICAN SIGN LANGUAGE II P**

*Course Code:* 184210, 184220

*Grade Level:* 10, 11, 12

*Length:* Two trimesters

*Prerequisite:* American Sign Language I P

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* American Sign Language II P is a continuation course to the visual-gestural language used by deaf people in the United States. Emphasis will be placed on sign vocabulary development, grammatical structure, and the manual alphabet. Students will further their understanding and appreciation of "deaf" culture and history.

## **AMERICAN SIGN LANGUAGE III P**

*Course Code:* 184310, 184320

*Grade Level:* 10, 11, 12

*Prerequisite:* American Sign Language II P

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* Students taking American Sign Language III P will study and practice the language in a predominantly non-verbal environment. They will develop strong expressive and receptive skills using a broad range of subject areas. Emphasis will be placed on the correct usage of non-manual signals.

**FRENCH I P**

*Course Code:* 180110, 180120

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* French I P is an introductory course to the French language and culture. The emphasis will be given to communicative activities focusing on listening and speaking skills. The student will gain an appreciation of French culture through readings, media, speakers, and geography. Formative skills in reading and writing will also be introduced.

**FRENCH II P**

*Course Code:* 180210, 180220

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* French I P

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* French II P is an extension of first year French. Students will develop intermediate communicative skills focusing on listening and speaking activities. The student will expand upon the basic reading and writing level acquired in French I P. Students will be introduced to intermediate grammatical concepts and verb tenses in the areas of speaking, listening comprehension, reading, and writing. Additional cultural capsules will be taught.

**FRENCH III P**

*Course Code:* 180310, 180320

*Grade Level:* 10, 11, 12

*Prerequisite:* French II P

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* French III P is designed to introduce the student to many advanced topics beyond those covered in the first two levels. More complex grammatical concepts will be used in listening, speaking, reading, and writing activities. Free composition and continued reading of appropriate level works will be stressed. Through a study of current events, students will become sensitive to cultural differences which exist in the world today.

**LATIN I P**

*Course Code:* 182110, 182120

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* Latin I P is an introduction to the language and culture of the ancient Romans. This course emphasizes the basic structures of the language and the reading of Latin texts. Students will gain a foundation in Latin grammar, practice reading and translating Latin, learn derivatives of Latin words, and be introduced to a variety of aspects of classical culture.

**LATIN II P**

*Course Code:* 182210, 182220

*Grade Level:* 10, 11, 12

*Prerequisite:* Latin I P

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* Latin II P is a continuation of the study of the language and culture of the ancient Romans. The course expands the study of Latin grammar and introduces complex structures and more sophisticated readings. Students will investigate a variety of new aspects of classical culture.

**LATIN III P**

*Course Code:* 182310, 182320

*Grade Level:* 11, 12

*Prerequisite:* Latin II P

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* Latin III P involves the review of Latin grammar and the reading and examination of original Latin texts. Students will learn advanced grammatical concepts, analyze literary texts critically, and make in-depth examinations of aspects of Roman culture.

**LATIN IV P**

*Course Code:* 182410, 182420

*Grade Level:* 12

*Prerequisite:* AP Latin Literature

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* Students read and examine the original Latin texts of Catullus and either Horace or Ovid to prepare themselves for the AP Latin Literature Examination. Students will review grammar, analyze literary texts, and strengthen their abilities to understand the current AP Latin Literature syllabus.

**AP LATIN LITERATURE**

*Course Code:* 182510, 182520

*Grade Level:* 11, 12

*Prerequisite:* Latin II P

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* Students read and examine the original Latin texts of Catullus and either Horace or Ovid to prepare themselves for the AP Latin Literature Examination. Students will review grammar, analyze literary texts, and strengthen their abilities to understand the current AP Latin Literature syllabus.

**LATIN LITERATURE AP SEMINAR**

*Course Code:* 182530

*Grade Level:* 11, 12

*Prerequisite:* AP Latin Literature

*Length:* One trimester (TX 3)

*Description:* Students will complete their translation and study of the AP Latin Literature Syllabus of either Catullus-Ovid or Catullus-Horace. They will review Latin grammar and scansion of poetry. Through repeated practice they will improve their abilities in sight reading and reading comprehension and their essay writing skills on themes related to the AP syllabus. Students will improve their chances of success on the AP Latin Literature exam by taking and analyzing practice AP tests. After the AP test in May, students will read other Latin lyric poets and make a presentation on lyric poetry to the class.

**AP LATIN: VERGIL**

*Course Code:* 182610, 182620

*Grade Level:* 12

*Prerequisite:* Latin III P

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* Latin Vergil AP involves the reading and critical analysis of original Latin texts with an emphasis on the poetry from the Latin Vergil Advanced Placement Syllabus. Students will make comparative analyses of Roman literature from the Republican to later periods. Students will review and expand understanding of Latin grammar, investigate topics related to the Augustan Period, and develop essay-writing skills while reflecting on the various poems and texts of the course.

**LATIN: VERGIL AP SEMINAR**

*Course Code:* 182630

*Grade Level:* 12

*Prerequisite:* AP Latin Vergil

*Length:* One trimester (TX 3)

*Description:* Students will complete their translation and study of the Vergil AP Syllabus. They will review Latin grammar and scansion of poetry, as well as improve their abilities in sight reading, reading comprehension and essay writing skills. After the exam, students will study other classical epic poets.

**SPANISH I P**

*Course Code:* 183110, 183120

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* Spanish I is a college preparatory, introductory course to the Spanish language and Hispanic culture. The emphasis will be given to activities focusing on essential language skills (listening, speaking, reading, and writing). The goal is to develop fluency and comprehension of the Spanish language. The student will gain an appreciation of Hispanic culture through readings, media, speakers, and geography. Formative skills in reading and writing will also be introduced.

## **SPANISH II P**

*Course Code:* 183210, 183220

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Spanish I P

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* This is a course designed for students continuing with their second academic year of college preparatory Spanish. Students will continue to develop all four language skills (listening, speaking, reading, and writing). The goal is to increase fluency and comprehension of the Spanish language. Students will be introduced to numerous, advanced grammatical concepts and vocabulary. Instruction will include insights into cultures and traditions of Spanish-speaking persons.

## **SPANISH III P**

*Course Code:* 183310, 183320

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Spanish II P

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* Third-year college-preparatory Spanish is designed to reinforce concepts covered in the first two levels while continuing acquisition of vocabulary and grammatical concepts. All four language skills are emphasized (listening, speaking, reading and writing). Cultures and traditions of Spanish-speaking persons are explored.

## **SPANISH IV P**

*Course Code:* 183410, 183420

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Spanish III P

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* Spanish IV is an advanced college preparatory course which will refine and expand the communicative skills and grammatical concepts learned in the previous three levels. All four language skills (listening, speaking, reading, and writing) will be utilized, with emphasis on reading and writing added to that of competent oral communication. The class will be conducted primarily in Spanish. Cultural values and customs will be explored.

## **AP SPANISH LANGUAGE**

*Course Code:* 183610, 183620

*Grade Level:* 11, 12

*Prerequisite:* Spanish III P

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (e) Language Other Than English requirement

*Description:* The AP program in Spanish language is intended for those who have chosen to continue to develop their proficiency in all four language skills: listening, speaking, reading, and writing. Students who enroll should have a basic knowledge of the language, a good command of Spanish grammar and vocabulary, and have competence in listening, speaking, reading, and writing.

## **SPANISH LANGUAGE AP SEMINAR**

*Course Code:* 183630

*Grade Level:* 11, 12

*Prerequisite:* AP Spanish Language

*Length:* One trimester (TX 3)

*Description:* Students will refine and expand communicative skills and grammatical concepts learned in previous levels. Through repeated practice, they will improve their ability to comprehend formal and informal spoken Spanish in dialogues, narratives, lectures, and interviews on cultural and literary topics. Students will also correctly identify words, expressions, and grammatical structures of certain complexity in written form. Also the course will prepare them to write well-organized essays on newspaper articles, magazine passages, cultural events, and literary topics with accurate grammar and proper syntax. Also students will actively participate in conversations with another fluent speaker by responding, clarifying, and expressing ideas with accuracy and fluency. In addition, students will take and analyze practice exams during the course of the trimester on materials that were released by AP Central College Board. After the AP Exam in May, students will read, watch, and analyze literary-based films such as Marianela, Los de abajo, Doña Barbara, Bodas de sangre, and/or La casa de Bernarda Alba. Students will create their favorite scene in class.

# HOME ECONOMICS CAREERS AND TECHNOLOGY DEPARTMENT

## CREATIVE LIVING

[VPA]

*Course Code:* 190100

*Grade Level:* 9, 10

*Prerequisite:* None

*Length:* One trimester

*Description:* This course enables the student to apply the design elements and principles in a variety of areas. These include clothing and textile projects, interior design, consumer, and child-related projects. Activity examples: sewing projects, designing a room and creating fashions. This course serves as the foundation for Interior Design and Fashion Design.

## HEALTHY LIVING

[Health]

*Course Code:* 190200

*Grade Level:* 9

*Prerequisite:* None

*Length:* One trimester

*Description:* In this activity-based course the student learns how to make healthy personal choices. Making responsible decisions will be practiced through the exploration of health, safety, first aid, stress management, peer pressure, personal health care issues, nutrition, food preparation, sanitation, and drug/alcohol/violence prevention.

## SINGLE AND FAMILY LIVING

[Health]

*Course Code:* 190500

*Grade Level:* 11, 12

*Prerequisite:* None

*Length:* One trimester

*Description:* This discussion-based class prepares students for building and maintaining healthy, mature relationships and living on their own. Issues related to health, nutrition, clothing, housing, consumer economics, drug/alcohol/violence prevention, and balancing work and family life will be explored. Current technology will be used to accomplish these life management skills.

## FASHION DESIGN

[VPA]

*Course Code:* 191100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Creative Living or 11<sup>th</sup>/12<sup>th</sup> grade standing or consent of teacher

*Length:* One trimester

*Description:* This course will enable students to create textile and clothing projects. Techniques of clothing construction are adapted to current fashion and the needs of the students. Color, line, and design analysis are related to body type and personality, fabrics and manufactured clothing. Activity examples: selection of patterns, fabrics, and small sewing tools and equipment; analysis of personal colors; construction of projects; and identification of fibers and fabrics.

## ADVANCED FASHION DESIGN

[VPA]

*Course Code:* 191200

*Grade Level:* 10, 11, 12

*Prerequisite:* Fashion Design

*Length:* One trimester, repeatable

*Description:* This course will enable students to expand their skills in textiles and clothing construction. The major emphasis is to develop skills in pattern adaptation, clothing alteration, and fashion coordination. Current trends in the fashion industry and careers, along with personal talents, skills, and experiences will be analyzed. Activity examples: constructing complicated designs and fabrics, analyzing textiles, and designing fashions by computer.

## INTERIOR DESIGN

[VPA]

*Course Code:* 192100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Creative Living or 11<sup>th</sup> or 12<sup>th</sup> grade standing

*Length:* One trimester

*Description:* This course will enable students to gain skills in designing and decorating personal living areas. The elements and principles of design will be used in floor plans, furniture arrangements, and creative decorating. Activity examples: drawing floor plans, coordinating decorative environments, and creating accessories.

**ADVANCED INTERIOR DESIGN**

[VPA]

*Course Code:* 192200*Grade Level:* 10, 11, 12*Prerequisite:* Interior Design*Length:* One trimester, repeatable

*Description:* This course enables students to apply their knowledge of the fundamentals of interior design in producing professional presentation boards for personal and commercial design projects. The relationship between the architectural design of the exterior and the interior is analyzed. Career possibilities related to this area are explored. Activity examples: reading blueprints, designing multiple room plans, designing commercial interiors, and designing by computer.

**ROP FASHION AND INTERIOR MERCHANDISING***Course Code:* 287210, 287220*Grade Level:* 11, 12 or age 16*Prerequisite:* Advanced Fashion Design or Advanced Interior Design or consent of instructor*Length:* Two trimesters

*Description:* Students in the Fashion Design, Manufacturing, and Merchandising career pathway establish a foundation in all aspects of the fashion industry. Students pursuing this career path study the industry; laws and regulations; operational procedures and safety; history of fashion; fashion forecasting; textiles and textile products; design principles and elements; merchandising and fashion forecasting; garment manufacturing; product knowledge and apparel merchandising; sales and services; visual merchandising; inventory control and loss prevention; pattern making for apparel design; developing and merchandising a line; textile design; garment alteration and repair; and care and cleaning of apparel. Fashion design, Manufacturing, and merchandising students also learn employment and management skills.

Students pursuing the Interior Design and Furnishings career pathway study all aspects of the field including the principles and elements of interior design; space planning and interior systems; window, wall, and floor fabrication and installation; furniture construction; sales and merchandising; history of furniture and design; laws and regulations; operational procedures and professionalism; residential and commercial design. Interior Design and Furnishings students also learn employment and management skills.

**DEVELOPMENTAL PSYCHOLOGY OF CHILDREN I P/TP***Course Code:* 193300*Grade Level:* 10, 11, 12*Prerequisite:* None*Length:* One trimester

*College Entrance:* This course is eligible for Cuesta College Articulated Credit. Also meets UC/CSU (g) Elective requirement.

*Description:* This course is a comprehensive study of developmental stages of children from conception through preschool, including the major theories of development and their application.

**NUTRITION***Course Code:* 194100*Grade Level:* 9, 10, 11, 12*Prerequisite:* Healthy Living*Length:* One trimester

*Description:* This course focuses on the basic science of nutrition. Personal nutritional needs as well as planning, preparing, serving, and evaluating nutritious food will be explored. Analysis of food items and personal eating habits will be experienced. Activity examples: preparing nutritious products, using a variety of cooking tools and equipment, reading and understanding food labels, and preparing quick and easy recipes.

**NUTRITION AND CULTURAL FOODS***Course Code:* 194200*Grade Level:* 10, 11, 12*Prerequisite:* Nutrition*Length:* One trimester

*Description:* This course continues to focus on the basic science of nutrition. Global food choices and customs, world hunger, food preparation around the world, and outdoor cookery are explored. Activity examples: barbecuing, setting up a buffet, preparing food items from other countries, analyzing nutritional values of foods, and exploring careers in this area.

### **SPECIAL PROJECTS IN FASHION DESIGN, INTERIOR DESIGN, OR NUTRITION**

*Course Code:* 195100

*Grade Level:* 11, 12

*Prerequisite:* Advanced Fashion Design, Advanced Interior Design, or Nutrition and Cultural Foods

*Length:* One trimester, repeatable

*Description:* This course allows the student to pursue advanced study in one of four career path clusters: Fashion Design, Manufacturing, and Merchandising; Interior Design, Furnishings and Maintenance; Food Science, Dietetics and Nutrition; or Food Service and Hospitality. A contract will be developed by the student and teacher, which will require signatures from the student and his/her parent, teacher, and counselor.

### **HOME ECONOMICS SEMINAR**

*Course Code:* 195200

*Grade Level:* 12

*Prerequisite:* Completion of courses in the student's chosen career path cluster

*Length:* One or two trimesters

*Description:* This course allows students who are candidates for certification to participate in research about their selected career pathway. Activity examples: participating in an internship (supervised work experience in a professional setting), completing projects related to his/her home economics specialty, and preparing a portfolio.

### **ROP CAREERS WITH CHILDREN TP**

*Course Code:* 287510, 287520

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* Developmental Psychology of Children I P/TP, application, and consent of teacher. Students must meet the requirements for volunteer aides as outlined by the Department of Social Services (Day Care Licensing).

*Length:* Two trimesters (two periods daily)

*College Entrance:* This course is eligible for Cuesta College Articulated Credit.

*Description:* This course is designed to give high school students the opportunity to learn entry-level job skills in the field of childcare, while working at the on-campus lab, Tiny Tiger Preschool or community field sites. The students learn career opportunities and general job skills related to working with children. Students spend three weeks in a classroom training program and the remainder of the trimester is spent working with young children. Weekly classroom seminars are held for preparation, evaluation and curriculum enrichment. The course is a one-year class with a maximum of 20 units of credit with a certificate of competence awarded at the completion of the course.

### **ROP HOSPITALITY, TOURISM AND FOOD SERVICE**

*Course Code:* 287610, 287620

*Grade Level:* 11, 12 or age 16

*Prerequisite:* Nutrition and Nutrition and Cultural Foods

*Length:* Two trimesters

*Description:* This course will provide students with skills, knowledge, and experience in the areas of hospitality, tourism, recreation, and food service. The class will focus on the many career opportunities available in this exciting and growing field. As a partnership between the business community and schools, students will be provided with a uniquely designed course of instruction and community experiences which will enable them to gain pertinent academic knowledge and acquire marketable skills.

### **ROP TEACHING CAREERS TP**

*Course Code:* 287410, 287420

*Grade Level:* 11, 12 or age 16

*Prerequisite:* None

*Length:* Two trimesters

*College Entrance:* This course is eligible for Cuesta College Articulated Credit.

*Description:* This course will prepare students for a rewarding, challenging and fulfilling career in education and teaching. The student will acquire and apply skills and knowledge related to workplace readiness skills; standards and credentialing regulations; child growth and development; positive interaction, guidance and discipline; developmentally appropriate practices; health and safety; roles of instructional assistant; planning and supervision of recreation activities; lesson planning and grading; use of computers and educational technology; classroom management and professionalism. Through community classroom experiences you will be given opportunities to assist with instructional activities and guidance of elementary children under the supervision of professional personnel.

# INDUSTRIAL TECHNOLOGY DEPARTMENT

## **AUTO I TP**

*Course Code:* 200100

*Grade Level:* 10, 11, 12

*Prerequisite:* None

*Length:* One trimester

*College Entrance:* This course is eligible for Cuesta College Articulated Credit.

*Description:* This course provides an introduction to the automobile and its supporting systems from a consumer's viewpoint. The course involves principles of operation, familiarity of basic components, and the safe performance of preventative maintenance in the following areas: engines, electrical, ignition, fuel, lubrication, cooling, tires, and emission control.

## **AUTO II TP**

*Course Code:* 200210, 200220

*Grade Level:* 10, 11, 12

*Prerequisite:* Auto I TP

*Length:* Two trimesters

*College Entrance:* This course is eligible for Cuesta College Articulated Credit.

*Description:* This course provides information in advanced level skills required for maintenance of the automobile and its supporting systems from a technician's viewpoint. The course expands on the principles of operation and familiarity of components, and teaches the diagnostic and service procedures required to maintain the following systems: engines, cooling, lubrication, starting, charging, ignition, fuel, and emission control.

## **ROP AUTOMOTIVE ENGINE DIAGNOSIS TP**

*Course Code:* 282100

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* Auto I TP and Auto II TP or consent of teacher

*Length:* One trimester, two periods daily (TX 1)

*College Entrance:* This course is eligible for Cuesta College Articulated Credit.

*Description:* The purpose of this course is to develop specific competencies needed for entrance into occupations in the following areas: mechanical condition testing, starting system service, charging system service, ignition system service, fuel system service, and emission control system service. Class time will be divided between lecture, demonstration, and work in shop with emphasis on diagnosis, service, and repair. Students will also be provided the opportunity to further develop their skills by working in an auto repair facility in the community during the final weeks of the trimester.

## **ROP AUTOMOTIVE INTERNSHIP TP**

*Course Code:* 282410, 282420

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* ROP Automotive Maintenance TP or ROP Automotive Engine Diagnosis or ROP Automotive Powertrain Systems TP

*Length:* Two trimesters

*College Entrance:* This course is eligible for Cuesta College Articulated Credit.

*Description:* This course is designed to give students actual "hands-on" experience in an automotive repair facility. Each student will work as an apprentice under a certified, experienced technician. Students will learn entry-level skills that are needed to succeed in the automotive industry. The purpose of this class is to give students an idea of what it is like to work in the automotive industry.

## **ROP AUTOMOTIVE POWERTRAIN SYSTEMS TP**

*Course Code:* 282300

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* Auto I or consent of teacher

*Length:* One trimester, two periods daily

*College Entrance:* This course is eligible for Cuesta College Articulated Credit.

*Description:* The purpose of this course is to develop specific competencies needed for entrance into suspension service, wheel alignment service, brake service, tire service, drive line service and air conditioning service. Class time will be divided between lecture, demonstration, and work in shop with emphasis on diagnosis, service, and repair. Students will also have the opportunity to further develop their skills by working in an auto repair facility in the community during the final weeks of the trimester.

**DRAFTING I**

*Course Code:* 201100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* One trimester

*Description:* Drafting I is the first course in the drafting sequence. Students will use drafting tools to construct scaled two-dimensional and three-dimensional drawings. The emphasis is on development of drafting skills.

**ARCHITECTURAL DRAFTING**

*Course Code:* 201410, 210420

*Grade Level:* 11, 12

*Prerequisite:* Drafting I and Computer Aided Drafting (ROP) TP and/or consent of teacher

*Length:* Two trimesters

*Description:* This is a course designed to allow the drafting student an opportunity to become familiar with architectural drafting by designing a house plan and developing a set of working drawings for the plan.

**ROP COMPUTER AIDED DRAFTING TP**

*Course Code:* 286110, 286120

*Grade Level:* 11, 12 or age 16

*Prerequisite:* Drafting I

*Length:* Two trimesters

*College Entrance:* This course is eligible for Cuesta College Articulated Credit.

*Description:* This course will prepare students for entry-level jobs in Computer Aided Drafting. Using Auto CAD software, students will learn both two-dimensional and three-dimensional drawing.

**METAL I**

*Course Code:* 202100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* One trimester

*Description:* This course covers safety, layout and measurement, machine shop practices, sheet metal, and foundry practice.

**METAL II**

*Course Code:* 202210, 202220

*Grade Level:* 10, 11, 12

*Prerequisite:* Metal I or Basic Welding

*Length:* Two trimesters

*Description:* This course covers safety, machine shop practices, electric welding, oxyacetylene welding, and precision layout and measurement.

**METAL III**

*Course Code:* 202310, 202320

*Grade Level:* 11, 12

*Prerequisite:* Metal II

*Length:* Two trimesters

*Description:* This course covers safety, oxyacetylene and electric welding review, layout and measurement, and machine shop practices. Emphasis will be placed on project design, planning, and construction.

**BASIC WELDING**

*Course Code:* 202400

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* One trimester

*Description:* This course covers safety, layout and measurement, sheet metal practice, oxyacetylene and electric welding. Students will have instruction in career opportunities.

**ROP WELDING**

*Course Code:* 285910, 285920

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisite:* Basic Welding or Metal I

*Length:* Two trimesters

*Description:* This course involves learning advanced welding techniques. These include certification requirements and advanced TIG and MIG. Project design and completion will also be integrated into this course.

### **WOOD I**

*Course Code:* 204100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* One trimester

*Description:* This course involves the learning of safe practices in the use of hand and power tools. The student is instructed in planning and designing a specified project which involves the basic operations of both hand and machine tools. The student then progresses to self-selected projects under the direction of the teacher. Individual student projects beyond the curricular objectives may be charged a supplies/materials fee.

### **WOOD II**

*Course Code:* 204210, 204220

*Grade Level:* 10, 11, 12

*Prerequisite:* Wood I

*Length:* Two trimesters

*Description:* This course is pre-vocational with emphasis on furniture and cabinet making. The above includes both personal and school projects. The student explores the woodworking industry as well as develops working skills and knowledge about equipment, materials, and maintenance of machine and hand tools. Individual student projects beyond the curricular objectives may be charged a supplies/materials fee.

### **WOOD III**

*Course Code:* 204310, 204320

*Grade Level:* 11, 12

*Prerequisite:* Wood II

*Length:* Two trimesters

*Description:* This is a course for advanced woodworking students to develop entry-level knowledge and skills in the woodworking industry. The student will be involved in building cabinets and furniture, as well as some light frame house construction. A portion of the program will be devoted to materials and processes of related trades and industries. Work will consist of class discussions, field trips, and school and student projects. Individual student projects beyond the curricular objectives may be charged a supplies/materials fee.

### **CONSTRUCTION**

*Course Code:* 204400

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Wood I

*Length:* One trimester, repeatable

*Description:* This course is designed to give the student a complete overview of the residential construction process. It is not designed to emphasize one aspect of construction more than any other. This course assumes the student knows and wants to begin improving his/her understanding of the construction business.

## **MATHEMATICS DEPARTMENT**

### **ALGEBRA I P**

*Course Code:* 211210, 211220, 211230

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Pre-Algebra or recommendation of teacher

*Length:* Three trimesters

*College Entrance:* Meets UC/CSU (c) Mathematics requirement

*Description:* This college preparatory course is designed to strengthen algebraic and problem-solving skills. The course focuses on ratios, writing equations, solving various types of equations, and understanding the relationships among equations, graphs, solutions, and polynomials.

### **HIGH SCHOOL GEOMETRY**

*Course Code:* 210810, 210820

*Grade Level:* 10, 11, 12

*Prerequisite:* Algebra I P or Algebra I - Course 2 P

*Length:* Two trimesters

*Description:* This course contains the California Mathematics Content Standards for geometry but is designed especially for students that would benefit from a hands-on developmental approach to learning geometrical concepts.

## **GEOMETRY P**

*Course Code:* 211310, 211320

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Algebra I P

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (c) Mathematics requirement

*Description:* Geometry P is the study of geometric figures in a plane and in space. It stresses the basic principles of Euclidean Geometry in solving problems. The relationships between algebraic and geometric thinking are stressed in developing proofs and solutions to problem situations.

## **GEOMETRY H**

*Course Code:* 211410, 211420

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Algebra I P with a grade of "A" or "B" or teacher recommendation

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (c) Mathematics requirement

*Description:* Geometry H is the study of geometric figures in a plane and in space. It stresses the basic principles of Euclidean Geometry and uses both induction and deduction as a means of solving problems. Proofs and algebraic solutions to problems are also stressed. The honors-level course is differentiated through: acceleration/pacing, depth, and complexity. Emphasis is placed on advanced research activities and projects. Students are expected to apply higher level thinking skills to complex problems.

## **ALGEBRA II P**

*Course Code:* 211510, 211520

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Geometry P or Geometry H

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (c) Mathematics requirement

*Description:* Algebra II P further develops the algebraic skills introduced in Algebra I P. New algebraic concepts are introduced in the areas of: conic sections, complex numbers, exponential and logarithmic functions, probability models, sequences and series, fitting functions to data, discrete and continuous functions, linear programming, sampling and experimental results compared to theoretical results, angular measures, right triangle trigonometry and the circular functions.

## **ALGEBRA II H**

*Course Code:* 211610, 211620

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Geometry P or Geometry H

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (c) Mathematics requirement

*Description:* Algebra II H further develops the algebraic skills introduced in Algebra I P. New algebraic concepts are introduced in the areas of: conic sections, complex numbers, exponential and logarithmic functions, probability models, sequences and series, fitting functions to data, discrete and continuous functions, linear programming, sampling and experimental results compared to theoretical results, angular measures, right triangle trigonometry and the circular functions. The honors-level course is differentiated through: acceleration/pacing, depth, and complexity. Emphasis is placed on advanced research activities and projects. Students are expected to apply higher level thinking skills to complex problems.

## **LINEAR ALGEBRA P**

*Course Code:* 212700

*Grade Level:* 11, 12

*Prerequisite:* Algebra II P or Algebra II H

*Length:* One trimester

*College Entrance:* Meets UC/CSU (c) Mathematics requirement

*Description:* This is a course for college-bound students whose major will not require trigonometry-based calculus. The general goal of this course is for students to learn the techniques of matrix manipulation so that they can: solve systems of linear equations in any number of variables using the Gauss-Jordan elimination method and inverse matrix methods, model real-world application problems and use matrix methods to solve them. Linear programming problems in two and three dimensions will be solved graphically and algebraically. Linear programming problems in up to six dimensions will be solved using matrix methods. Students will also study vectors and their applications; finding the angle between vectors, the addition and subtraction of vectors, the geometric interpretation of the determinants of matrices in two and three-dimensional vector spaces, and the dot product of two vectors in n-dimensional space. Students will use a variety of problem-solving strategies to solve problems from several different areas of mathematics. Educational technologies such as graphing calculators and computer software will be used extensively.

## **PROBABILITY AND STATISTICS P**

*Course Code:* 212600

*Grade Level:* 11, 12

*Prerequisite:* Algebra II P or Algebra II H

*Length:* One trimester

*College Entrance:* Meets UC/CSU (c) Mathematics requirement

*Description:* This is a course for college-bound students whose major will not require trigonometry-based calculus. This course is an introduction to the study of probability and statistics. For finite sample spaces, students will know and use the notion of independent events, conditional probability, and discrete random variables to solve for particular probabilities. Students will be familiar with the standard statistical distributions (normal, binomial, and exponential) and use them to solve for the probability of the occurrence of particular events. Students will compute the variance and standard deviation of a distribution of data. Students will organize and describe distributions of data using several different methods of data presentation. In addition to probability and statistics, this course will introduce the student to valid and invalid arguments in deductive logic and the mathematics of finance, including compound interest, amortization and annuities. Educational technologies such as graphing calculators and computer software will be used extensively.

## **PRE-CALCULUS P**

*Course Code:* 211710, 211720

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Algebra II P or Algebra II H

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (c) Mathematics requirement

*Description:* This course develops the concepts and properties of periodic trigonometric functions: circular functions, periodicity of sine function and its variants, radian measure, polar and rectangular coordinates, and trigonometric identities with emphasis on Pythagorean identities. Educational technologies, such as graphing calculators, will be used. Pre-Calculus will also focus on linear programming problems, the Theory of Equations, matrices and vectors, sequences and series, exponential and logarithmic functions, probability, and statistics.

## **PRE-CALCULUS H**

*Course Code:* 211810, 211820

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Algebra II P with a grade of "A" or "B" or teacher recommendation, Algebra II H is recommended.

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (c) Mathematics requirement UC/CSU approved for weighted grade credit.

*Description:* This course develops the concepts and properties of periodic trigonometric functions and their applications with a more advanced, in-depth analysis approach. The honors-level course is differentiated through: acceleration/pacing, depth, and complexity. Emphasis is placed on advanced research activities and projects. Students are expected to apply higher level thinking skills to complex problems. Educational technologies, such as graphing calculators, will be used.

Pre-Calculus will also focus on the concepts of linear programming, the Theory of Equations, matrices and vectors, sequences and series, exponential and logarithmic functions, probability, and statistics. The honors-level course is differentiated through: acceleration/pacing, depth, and complexity. Students are expected to conduct in-depth analysis of pre-calculus topics and their applications. The use of educational technologies, such as graphing calculators, will be emphasized.

## **AP CALCULUS AB**

*Course Code:* 212210, 212220

*Grade Level:* 10, 11, 12

*Prerequisite:* Pre-Calculus P or Pre-Calculus H with a grade of "A" or "B" or teacher recommendation

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (c) Mathematics requirement

*Description:* This is a course designed for students who plan to major in mathematics, science, or engineering at a college or university. The course will provide each student with a thorough understanding of differential and integral calculus as outlined by the College Board for Calculus AP. This course will weave together arithmetic, algebra, geometry, trigonometry, and problem solving as they apply to the study of calculus.

## **AP STATISTICS**

*Course Code:* 212310, 212320

*Grade Level:* 11, 12

*Prerequisite:* Algebra II P or Algebra II H

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (c) Mathematics requirements

*Description:* Statistics AP is a project-centered course that acquaints students with the major concepts and tools for collecting, organizing, and analyzing data. Students will then draw conclusions from their analyses.

In this course, students will be calculating probabilities, summarizing distributions of univariate data, studying random variables and sampling distributions. They will be comparing distributions of data, utilizing confidence intervals, calculating standard deviation and variance, utilizing the Normal distribution and Chebyshev's Theorem, creating data analyses. Students will be designing experiments, testing hypotheses, comparing two means in two sample statistics, utilizing least squares regression in simple linear regression models, and reporting their findings.

Students will frequently work on projects involving the hands-on gathering and analysis of real world data. Computers and calculators will allow students to focus in-depth, applying their knowledge of concepts involved in their statistical studies. This course prepares students for the Advanced Placement Examination in Statistics. Students will be prepared with all content knowledge prior to the examination. Time remaining after the exam will be dedicated to a large culminating project including references, data collection, and good sampling techniques. Their projects will contain an appropriate, thorough statistical analysis. Students present their projects to the class as part of their project grade.

## **ELECTIVES IN MATHEMATICS**

**THESE COURSES WILL NOT TAKE THE PLACE  
OF THE REQUIRED MATHEMATICS COURSES.**

### **CAHSEE MATHEMATICS**

*Course Code:* 210800

*Grade Level:* 10, 11, 12

*Prerequisite:* None

*Length:* One trimester (TX 1)

*Description:* This course is for elective credit only. Students will review and master the State standards in all five strands (Number Sense, Algebra and Functions, Measurement and Geometry, Statistics, Data Analysis and Probability and Mathematical Reasoning). Students will prepare for the California High School Exit Exam (CAHSEE).

### **CALCULUS AP SEMINAR**

*Course Code:* 212230

*Grade Level:* 11, 12

*Prerequisite:* AP Calculus A B with a grade of "B" or better.

*Length:* One trimester (TX 3)

*Course Description:* This is a course designed for students who plan to take the AP test and would like to learn additional calculus topics not covered in the standard AP-AB course. The additional material will better prepare students for more advanced topics found in a University calculus course.

## **MUSIC DEPARTMENT**

### **GUITAR I P**

[VPA]

*Course Code:* 220100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* None

*Length:* One trimester, not repeatable

*College Entrance:* Completing Guitar I and II meets the UC/CSU (f) Visual and Performing Arts requirement.

*Description:* This course develops the physical skills necessary to play beginning level guitar music accurately and with good tone quality, develops skills in reading music notation, and develops an understanding of the historical significance of the guitar and its literature. This course also provides an understanding of musical elements and how they apply to the music played and heard.

**GUITAR II P****[VPA]***Course Code:* 220200*Grade Level:* 9, 10, 11, 12*Prerequisite:* Guitar I*Length:* One trimester*College Entrance:* Completing Guitar I and II meets the UC/CSU (f) Visual and Performing Arts requirement.*Description:* Students will be instructed in how to play a variety of chord patterns, 12-bar-blues; barre chords; read music notation and tablature; play scales; recognize key signatures, fingerpick; improvise; build a varied repertoire of songs to perform. They will be required to write a research paper on an individual who has made a career in music.**BAND 9-12 P****[VPA]***Course Code:* 221310, 221320, 221330*Grade Level:* 9, 10, 11, 12*Prerequisite:* Audition*Length:* Three trimesters, repeatable*College Entrance:* Meets UC/CSU (f) Visual and Performing Arts requirement*Description:* This course includes advanced instrumental techniques, performance of a wide range of music, festival participation, and numerous public performances.**STRING ORCHESTRA****[VPA]***Course Code:* 221510, 221520*Grade Level:* 9, 10, 11, 12*Prerequisite:* Prior experience playing a string instrument and audition/consent of instructor*Length:* Three trimesters, repeatable*Description:* This music performance class provides students the opportunity for continued instruction of a wide variety of music for string ensembles. Intermediate to advanced musicianship skills and techniques that are unique to string instrument performance are developed. After school concerts are required.**JAZZ /STAGE BAND P****[VPA]***Course Code:* 221410, 221420, 221430*Grade Level:* 9, 10, 11, 12*Prerequisite:* Audition, consent of teacher, and concurrent enrollment in Band 9-12*Length:* Three trimesters, repeatable (**Zero Period**)*College Entrance:* Meets UC/CSU (f) Visual and Performing Arts requirement*Description:* This course provides musical training in jazz, Latin, blues, rock, and improvisation. Emphasis is on performing skills.**TREBLE CHOIR P (Part A only SLOHS)****[VPA]***Course Code:* 222810, 222820*Grade Level:* 9, 10, 11, 12*Prerequisite:* None*Length:* One trimester (TX 1)*Description:* This course is a beginning choral music class for voices in the upper half of the vocal range. Students must be able to match pitch accurately, and sing with sensitivity and skill. This choir will perform for the general public and perform in school assemblies. As in all choral-performing classes, the emphasis in Treble Choir P is ongoing musical development, including choral tone, and a multitude of various choral characteristics.**ADVANCED TREBLE CHOIR P****[VPA]***Course Code:* 222910, 222920*Grade Level:* 9, 10, 11, 12*Prerequisite:* Audition or consent of teacher*Length:* Two trimesters, repeatable*College Entrance:* Meets UC/CSU (f) Visual and Performing Arts requirement*Description:* This course includes three- and four-part music reading, advanced vocal techniques for voices in the upper half of the vocal range, and performance of a challenging repertoire in a wide range of styles during rehearsals, concerts, tours, and festival participation.

**CONCERT CHOIR P****[VPA]***Course Code:* 223110, 223120, 223130*Grade Level:* 9, 10, 11, 12*Prerequisite:* Audition/teacher recommendation*Length:* Three trimesters, repeatable*College Entrance:* Meets UC/CSU (f) Visual and Performing Arts requirement

*Description:* Concert Choir P is an intermediate through advanced choral music class. Students must be able to match pitch accurately, and sing with sensitivity and skill. This ensemble will give some outside performances for the general public, perform in school assemblies, and also participate in selected festivals for adjudication. As in all choral-performing classes, the emphasis in Concert Choir P is ongoing musical development including choral tone, and a multitude of various choral characteristics.

**CHAMBER SINGERS P****[VPA]***Course Code:* 223310, 223320, 223330*Grade Level:* 10, 11, 12*Prerequisite:* Treble Choir P, audition and consent of teacher*Length:* Three trimesters, repeatable (**6 Period**)*College Entrance:* Meets UC/CSU (f) Visual and Performing Arts requirement

*Description:* Chamber Singers P strives to develop singing skills as students study and perform standard high school and college choral literature. There are many outside performances. As in all choral-performing classes, the emphasis in Chamber Singers P is on ongoing musical development. Students in this ensemble, as a general rule, have had a good deal of singing experience, so the focus is on further developing singing technique, performance practices, and form and style as it relates to a varied repertoire, representing all facets of musical history.

## PHYSICAL EDUCATION DEPARTMENT

**PHYSICAL EDUCATION – COURSE 1***Course Code:* 240110, 240120*Grade Level:* 9*Prerequisite:* None*Length:* Two trimesters

*Description:* The primary content of this course will include instruction in the following: rhythms and dance, aquatics, combatives, team sports, gymnastics, and recreational games. The focus is the development of an individualized fitness program.

**PHYSICAL EDUCATION – COURSE 2***Course Code:* 241110, 241120*Grade Level:* 10, 11, 12*Prerequisite:* Physical Education – Course 1*Length:* Two trimesters, repeatable

*Description:* The primary emphasis of this course will be individual sports and physical fitness. In this course the students will have the opportunity to select two of the following areas to emphasize: A) weight training and combatives, B) individual and dual sports/outdoor education, C) recreational and team sports, D) dance and aerobics, and E) aquatics. Career Education objectives will be included in this course.

**INDIVIDUALIZED PE***Course Code:* 242110, 242120, 242130*Grade Level:* 9, 10, 11, 12*Prerequisite:* Doctor or counselor recommendation*Length:* As long as prescribed

*Description:* The course is designed for students who have exceptional needs, including serious health problems. Students receive assistance and counseling that enables them to succeed in an appropriate physical education program.

# ELECTIVES IN PHYSICAL EDUCATION

THESE COURSES WILL NOT TAKE THE PLACE  
OF THE REQUIRED PHYSICAL EDUCATION COURSES.

## ADVANCED RACQUET SPORTS

*Course Code:* 260100

*Grade Level:* 10, 11, 12

*Prerequisites:* Physical Education-Course 1 or teacher approval

*Length:* One trimester, repeatable

*Description:* This course will include advanced techniques and skill development in tennis, badminton, table tennis, paddleball and aerial tennis.

## DANCE P

[VPA]

*Course Code:* 260310, 260320

*Grade Level:* 10, 11, 12

*Prerequisite:* One unit (4 weeks) or more of dance experience

*Length:* Two trimesters

*College Entrance:* Meets the UC/CSU (f) Visual and Performing Arts requirement

*Description:* This course is designed to develop physical conditioning, proper body alignment and basic dance techniques with an emphasis in jazz, tap, and ballet.

## DANCE AEROBICS

*Course Code:* 260200

*Grade Level:* 10, 11, 12

*Prerequisites:* Physical Education-Course 1

*Length:* One trimester, repeatable

*Description:* This course is designed to help students strengthen their large muscle groups and improve flexibility while improving all aspects of their cardiovascular fitness through participation in selected activities that will accomplish this. Students will also be instructed in proper technique and safety precautions for aerobic dance activities.

## PHYSICAL FITNESS FOR HEALTH

*Course Code:* 260400

*Grade Level:* 9

*Prerequisite:* Counselor and/or teacher recommendation

*Length:* One trimester

*Description:* This course will incorporate concepts and principles of physical fitness. Fitness plans will be developed and implemented based on individual need to achieve state fitness testing requirements.

## WEIGHT TRAINING

*Course Code:* 260600

*Grade Level:* 10, 11, 12

*Prerequisite:* Physical Education-Course 1

*Length:* One trimester, repeatable with teacher approval

*Description:* This course is designed to provide physical fitness education with an emphasis on conditioning through weight-bearing exercise, and improvement of overall fitness through specialized equipment and techniques.

## ROP INTRODUCTION TO SPORTS MEDICINE

See complete *Description* under "Non-Departmental" courses.

## ROP HEALTH CARE CAREERS FIELD EXPERIENCE

See complete *Description* under "Non-Departmental" courses.

# PHYSICAL EDUCATION - ATHLETICS

THESE COURSES MAY BE TAKEN FOR ELECTIVE P.E. CREDIT ONLY. THEY CAN NOT BE TAKEN TO MEET THE PHYSICAL EDUCATION GRADUATION REQUIREMENT.

## PHYSICAL EDUCATION - ATHLETICS - BASEBALL

*Course Code:* 250100

*Grade Level:* 10, 11, 12

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to play interscholastic baseball. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, and individual skills for baseball.

## PHYSICAL EDUCATION - ATHLETICS - BASKETBALL

*Course Code:* 250200, 250300

*Grade Level:* 10, 11, 12

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to play interscholastic basketball. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, and individual skills for basketball.

## PHYSICAL EDUCATION - ATHLETICS - CROSS COUNTRY

*Course Code:* 250400

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to compete in interscholastic cross country. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, individual training, and race techniques.

## PHYSICAL EDUCATION - ATHLETICS - FOOTBALL

*Course Code:* 250500

*Grade Level:* 9-12

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to play interscholastic football. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, and individual skills for football.

## PHYSICAL EDUCATION - ATHLETICS - GOLF

*Course Code:* 250600, 250700

*Grade Level:* 9 girls, 10, 11, 12 (Ninth grade boys will be added when they make the team.)

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to play interscholastic golf. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, and individual skills for golf.

## PHYSICAL EDUCATION - ATHLETICS - SOCCER

*Course Code:* 250800, 250900

*Grade Level:* 10, 11, 12 (Ninth grade students will be added when they make the team.)

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to play interscholastic soccer. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, and individual skills for soccer.

### **PHYSICAL EDUCATION - ATHLETICS - SOFTBALL**

*Course Code:* 251000

*Grade Level:* 10, 11, 12 (Ninth grade students will be added when they make the team.)

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to play interscholastic softball. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, and individual skills for softball.

### **PHYSICAL EDUCATION - ATHLETICS - SWIMMING AND DIVING**

*Course Code:* 251100

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to play interscholastic swimming and diving. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, and individual skills for swimming and diving.

### **PHYSICAL EDUCATION - ATHLETICS - TENNIS**

*Course Code:* 251200, 251300

*Grade Level:* 10, 11, 12 (Ninth grade students will be added when they make the team.)

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to play interscholastic tennis. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, and individual skills for tennis.

### **PHYSICAL EDUCATION - ATHLETICS - TRACK AND FIELD**

*Course Code:* 251400

*Grade Level:* 10, 11, 12

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to play interscholastic track and field. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, and individual skills for track and field.

### **PHYSICAL EDUCATION - ATHLETICS - VOLLEYBALL**

*Course Code:* 251500, 251600

*Grade Level:* 9 boys, 10, 11, 12 (Ninth grade *girls* will be added when they make the team.)

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to play interscholastic volleyball. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, and individual skills for volleyball.

### **PHYSICAL EDUCATION - ATHLETICS - WATERPOLO**

*Course Code:* 251700, 251800

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to play interscholastic waterpolo. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, and individual skills for waterpolo.

### **PHYSICAL EDUCATION - ATHLETICS - WRESTLING**

*Course Code:* 252400

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Approval of coach

*Length:* One trimester, repeatable with consent of teacher

*Description:* This course is for athletes who have made a commitment to play interscholastic wrestling. During the season, the focus will be on organized team practice, which continues beyond the time frame of the period. The "out of season" focus will be on conditioning, sports injuries, and individual skills for wrestling.

# SCIENCE DEPARTMENT

## **INTEGRATED SCIENCE P**

[Physical Science]

*Course Code:* T290310, T290320

*Grade Level:* 9, 10, 11

*Prerequisite:* None

*Length:* Two trimesters

*College Entrance:* Pending UC/CSU (g) Elective requirement approval

*Description:* Students will be introduced to the fundamentals of biology, chemistry, earth sciences, and physics through a lecture and lab format. A research paper and long-term experiment may be required. This is a preparatory course for biology, chemistry and physics.

## **INTEGRATED SCIENCE H**

[Physical Science]

*Course Code:* T290410, T290420

*Grade Level:* 9, 10, 11

*Prerequisite:* None

*Length:* Two trimesters

*College Entrance:* Pending UC/CSU (g) Elective requirement approval

*Description:* Students will be introduced to the fundamentals of biology, chemistry, earth sciences, and physics through a lecture and lab format. A research paper and long-term experiment may be required. This is a preparatory course for biology, chemistry and physics. Honors-level students will be expected to answer more complex questions, be an academic role model for others, perform more advanced research, and perform to higher grading standards.

## **BIOLOGY P**

[Life Science]

*Course Code:* 291310, 291320

*Grade Level:* 10, 11, 12

*Prerequisite:* Agricultural Physical Science P or Agricultural Physical Science H or Physical Science P or Physical Science H

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (d) Laboratory Science requirement

*Description:* This course emphasizes biological processes from cells to organisms to ecosystems. Students will be actively engaged in laboratory investigations, concept activities and projects. A major part of the course involves learning the scientific method through research and experimental technique. A research paper and long-term experiment may be required.

## **BIOLOGY H**

[Life Science]

*Course Code:* 291410, 291420

*Grade Level:* 10, 11, 12

*Prerequisite:* Agricultural Physical Science P or Agricultural Physical Science H or Physical Science P or Physical Science H

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (d) Laboratory Science requirement

*Description:* This course emphasizes biological processes from cells to organisms to ecosystems. Students will be actively engaged in laboratory investigations, concept activities and projects. A major part of the course involves learning the scientific method through research and experimental technique. A research paper and long-term experiment may be required. The honors-level course is differentiated through depth, complexity and expectation. Emphasis is placed on advanced research, higher-level thinking skills and academic role modeling.

## **CHEMISTRY P**

*Course Code:* 292110, 292120

*Grade Level:* 11, 12

*Prerequisite:* Physical Science I P or Physical Science I H and Biology P or Biology H, and/or Agricultural Physical Science I P or Agricultural Physical Science I H and Agricultural Biology P or Agricultural Biology H, or recommendation from previous science teacher

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (d) Laboratory Science requirement

*Description:* This course is a quantitative and qualitative description of matter and energy and the transformations between them. Topics include nomenclature, methods in science, stoichiometry, solutions, acids and bases, kinetics, and equilibria. Lab work is required.

## **AP CHEMISTRY**

*Course Code:* 292310, 292320

*Grade Level:* 11,12

*Prerequisite:* Physical Science P or Physical Science H and Biology P or Biology H, and/or Agricultural Physical Science P or Agricultural Physical Science H and Agricultural Biology P or Agricultural Biology H and Algebra II P, or recommendation from previous science teacher

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (d) Laboratory Science requirement

*Description:* This course is a quantitative and qualitative description of matter and energy and the transformations between them. Topics include the structure of matter, electron configurations, bonding, nuclear chemistry, states of matter, solutions, reactions, stoichiometry, equilibrium, kinetics, and thermodynamics. The course cannot cover all aspects of chemistry that are on the Advanced Placement (AP) test. Independent work by the student will be necessary to gain a top score on the AP test. Successful completion of the course should adequately prepare you to pass the Chemistry AP test in May, and prepare you for a second year college course.

## **CHEMISTRY AP SEMINAR**

*Course Code:* 292330

*Grade Level:* 11,12

*Prerequisite:* AP Chemistry with a grade of "B" or better.

*Length:* One trimester (TX 3)

*Description:* This course is designed to help the students get a top score on the AP test given in May. Topics include the structure of matter, electron configurations, bonding, nuclear chemistry, states of matter, solutions, reactions, stoichiometry, equilibrium, kinetics, and thermodynamics. A great deal of lab work and computer work on APEX learning will take place.

## **PHYSICS P**

*Course Code:* 293110, 293120

*Grade Level:* 11, 12

*Prerequisite:* Chemistry P or Chemistry H or AP and concurrent enrollment in Pre-Calculus P or Pre-Calculus H recommended

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (d) Laboratory Science requirement

*Description:* Students in this course will study mechanics, energy, waves, heat, and electricity. This class emphasizes critical thinking and problem-solving as applied to the physical world. Lab work and projects are integral components of this course.

# **ELECTIVES IN SCIENCE**

**THESE COURSES WILL NOT TAKE THE PLACE  
OF THE REQUIRED SCIENCE COURSES.**

## **ANATOMY AND PHYSIOLOGY P**

**[offered alternating years 2008-2009, 2010-2011]**

*Course Code:* 294110, 294120

*Grade Level:* 11, 12

*Prerequisite:* Physical Science P or Physical Science H and Biology P or Biology H, and/or Agricultural Physical Science P or Agricultural Physical Science H and Agricultural Biology P or Agricultural Biology H

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (d) Laboratory Science requirement

*Description:* This course focuses on the study of the structure and function of the human body from cells and tissues through complete systems. A significant portion of the course is devoted to laboratory work ranging from microscopic work with cells through dissection and examination of animal systems.

## **ENVIRONMENTAL SCIENCE**

*Course Code:* 296110, 296120

*Grade Level:* 11, 12

*Prerequisite:* Biology or Agricultural Biology with a "C" or better

*Length:* Two trimesters

*College Entrance:* Meets UC/CSU (g) Elective requirement

*Description:* This course provides an objective overview of physical and biological processes affecting the environment and an exploration of current environmental issues. Topics will include earth system cycles, population and community ecology, energy, and resource management. Case studies will be used to connect the curriculum to industry, transportation, development, energy consumption, and politics.

**MICROBIOLOGY/MARINE BIOLOGY P**

[offered alternating years 2009-2010, 2011-2012]

*Course Codes:* 295110, 295120*Grade Level:* 11, 12*Prerequisite:* Physical Science P or Physical Science H and Biology P or Biology H, and/or Agricultural Physical Science P or Agricultural Physical Science H and Agricultural Biology P or Agricultural Biology H*Length:* Two trimesters, *offered alternating years ( 2009-2010, 2011-2012)**College Entrance:* Meets UC/CSU (d) Laboratory Science requirement*Description:* This course acquaints students with the major microbiological and marine organisms, including bacteria, algae, invertebrates, and fish. Students will learn the structure and function of the organisms and how they affect our world. Classroom activities will promote technical lab competence and utilize the scientific process of research and reporting.

## SOCIAL SCIENCE DEPARTMENT

**WORLD HISTORY, CULTURE AND GEOGRAPHY: THE MODERN WORLD P**

[World History]

*Course Code:* 321110, 321120*Grade Level:* 10*Prerequisite:* None*Length:* Two trimesters*College Entrance:* Meets UC/CSU (a) History/Social Science requirement*Description:* This course is designed to examine major turning points in the shaping of the modern world, from the late eighteenth century to the present. Focus is on the expansion of the West and on the growing interdependence of people and cultures throughout the world.**WORLD HISTORY, CULTURE AND GEOGRAPHY: THE MODERN WORLD H**

[World History]

*Course Code:* 321210, 321220*Grade Level:* 10*Prerequisite:* Application and teacher recommendation*Length:* Two trimesters*College Entrance:* Meets UC/CSU (a) History/Social Science requirement*Description:* Students in this class will study World History in-depth, from 1789 through the Cold War, as well as the history of the non-Western world — Middle East, Asia, Africa, and Latin America.**U.S. HISTORY AND GEOGRAPHY P**

[U.S. History]

*Course Code:* 322110, 322120*Grade Level:* 11*Prerequisite:* None*Length:* Two trimesters*College Entrance:* Meets UC/CSU (a) History/Social Science requirement*Description:* This course is designed with a selective review of American history from Jamestown settlement to 1900. The remainder of the course unfolds American history to the present. Career Education objectives will be included in this course.**AP U.S. HISTORY**

[U.S. History]

*Course Code:* 322310, 322320*Grade Level:* 11*Prerequisite:* Teacher recommendation*Length:* Two trimesters*College Entrance:* Meets UC/CSU (a) History/Social Science requirement*Description:* This course is designed to study the history of the United States chronologically, with emphasis on interpretation and analysis of the material by contemporary and modern historians. Through the use of primary and secondary sources the student will not only acquire a basic understanding of the factual material but will develop the analytical and interpretive skills necessary to deal with the subject matter in greater depth. At the end of the course, qualified students may take the U.S. History AP test.**AMERICAN GOVERNMENT P**

[American Government]

*Course Code:* 323100*Grade Level:* 12*Prerequisite:* None*Length:* One trimester*College Entrance:* Meets UC/CSU (a) History/Social Science requirement*Description:* This course will properly prepare students for their responsibilities as American citizens by examining the scopes of both federal and California state governments, as well as the political process and political parties.

**ECONOMICS P****[Economics]***Course Code:* 323300*Grade Level:* 12*Prerequisite:* None*Length:* One trimester*College Entrance:* Meets UC/CSU (g) Elective requirement*Description:* This is a social science course, enriching students' understanding of the operations and institutions of economic systems. It involves the study of basic economic concepts, comparative economic systems, individual and aggregate economic behavior, and international economic concepts. Career Education objectives will be included in this course.**ROP AGRICULTURE ECONOMICS AND GOVERNMENT POLICY P***This year-long course meets the District graduation requirements for Economics and Government.**See complete Description under "Agriculture Department" courses.***ROP VIRTUAL ENTERPRISE/ECONOMICS OF BUSINESS OWNERSHIP P***The course meets the District graduation requirement for Economics.**See complete Description under "Business/Computer Education Department" courses.*

## ELECTIVES IN SOCIAL SCIENCE

**THESE COURSES WILL NOT TAKE THE PLACE  
OF THE REQUIRED SOCIAL SCIENCE COURSES.**

**PSYCHOLOGY P***Course Code:* 331100*Grade Level:* 10, 11, 12 (Priority given to grades 11, 12)*Prerequisite:* None*Length:* One trimester*College Entrance:* Meets UC/CSU (g) Elective requirement*Description:* This course will include the study of identity and personality, human development, learning, motivation, emotions, altered states of consciousness, mental health, and mental illness. Students will have the opportunities to explore scientific perspectives on human behavior. They will learn about various careers associated with this field of study.**SOCIOLOGY P***Course Code:* 331200*Grade Level:* 10, 11, 12 (Priority given to grades 11, 12)*Prerequisite:* None*Length:* One trimester*College Entrance:* Meets UC/CSU (g) Elective requirement*Description:* This course will include the study of the sociological perspective, including basic concepts, methods, culture, socialization, groups, marriage and family, demographic basis of society, and collective behavior. Topics of study include such social issues as crime and aging.**U.S. HISTORY AP SEMINAR***Course Code:* 322330*Grade Level:* 11*Prerequisite:* U.S. History AP*Length:* One trimester (TX 3)*Description:* The United States History Seminar AP course will provide students with both a comprehensive review of U.S. History, and a series of practice strategies in preparation for the Advanced Placement exam offered in May. Students will practice multiple-choice questions, document-based essay questions (DBQ), and free-response essay questions (FRE) with a view to scoring high enough on the exam to earn advanced placement college credit.

# SPECIAL EDUCATION DEPARTMENT

## **COURSE TITLE – Intervention, Modified, Alternative**

“Intervention” courses are resource classes in which the students receive the same curriculum as the general education course.

“Modified” courses are courses in which the general education curriculum is significantly modified for students with lower capabilities.

“Alternative” courses are courses which designate that the student is receiving an alternative curriculum. These classes are for students with significant impairments to learning, who cannot access the regular curriculum.

*Grade Level:* 9, 10, 11, 12

*Description:* Courses provide services in an integrated resource program including general education and special education program options in accordance with the school site plan. Instructional content to address the student’s IEP goals is under the direction of the special education teacher. Instruction may be provided by general education staff, including but not limited to: Migrant Education staff and/or special education staff. Instruction is delivered in an integrated program that may include regular and special education students.

The following courses may be offered: English, reading, mathematics, Algebra I, Integrated Science I, science, history/social science, life skills, computers skills, study skills, and career/vocational awareness.

## **NON-DEPARTMENTAL ELECTIVE COURSES**

### **CONTEMPORARY WORLD PROBLEMS/STATE REQUIRED INSTRUCTION (S.R.I.)**

*Course Code:* 320000

*Grade Level:* 9, 10

*Prerequisite:* None

*Length:* One trimester

*Description:* This elective course uses contemporary world events as a basis for further study of the social sciences, i.e., historical, ethical, cultural, geographic, economic, and sociopolitical. SRI fulfills the state requirements for driver education.

### **ATTENDANCE OFFICE ASSISTANT**

### **CAREER CENTER ASSISTANT**

### **COUNSELING OFFICE ASSISTANT**

### **TEACHER ASSISTANT**

*Course Code:* 234100,234200,234300, 234600

*Grade Level:* 11, 12

*Prerequisite:* Approval of supervisor

*Length:* One trimester, repeatable

*Description:* Students enrolled in the above courses will receive credit for successful completion, but no letter grade. In each area, students learn and perform services helpful to the operation of the school. Students may not receive more than 10 credits for “assistant” classes during high school.

### **DRILL TEAM**

*Course Code:* 230110, 230120

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Consent of teacher

*Length:* Two trimesters (Elective course - does not fulfill requirement for P.E.), repeatable

*Description:* Try-outs are held in the spring each year and students are invited to be a part of the Band 9-12 class and team. The emphasis of the class is to learn and perform dancing and marching routines at all home football games and special events during the year. Students are required to purchase their uniforms. (Fundraising activities are available to students to help offset this cost.)

### **LEADERSHIP**

*Course Code:* 231110, 231120, 231130

*Grade Level:* 9, 10, 11, 12

*Prerequisite:* Elected or appointed officers/commissioners as specified in Associated Student Body Constitution and approval of the principal’s designee.

*Length:* One trimester - appointed; Two trimesters - elected, repeatable

*Description:* Practical experience is gained through management of student government and activities. The course covers parliamentary procedures, state-school law, ASB finance, group discussion techniques, principles of leadership behavior, advance planning, and problem solving.

### **LIBRARY ASSISTANT**

*Course Code:* 234400

*Grade Level:* 11, 12

*Prerequisite:* Approval of teacher

*Length:* One trimester, repeatable

*Description:* This course offers the student training and experience in library work. Students learn procedures for checking materials in and out, filing, alphabetizing, and shelving, as well as using the card catalog, Readers' Guide, and reference books. Students may not receive more than 10 credits for "assistant" classes during high school.

### **STUDY SKILLS 9-12**

*Course Code:* 235110, 235120, 235130

*Grade Level:* 9

*Prerequisite:* At-risk 9<sup>th</sup> grade students

*Length:* One trimester, repeatable

*Description:* This course provides at-risk students an opportunity to learn the necessary Study Skills for success at both the secondary high school level and for post secondary experiences, and to get tutorial assistance with core subject work. Students will be given instruction to: use time well in any environment, keep themselves organized for various circumstances, and learn strategies to be successful in a variety of situations. They will apply the learning to their current classes, class work, and extracurricular schedules. Enrollment is based on recommendations from the middle school staff using a variety of criteria: GPA, CST scores, academic history, etc.

### **WORK EXPERIENCE EDUCATION**

*Course Code:* 232000

*Grade Level:* 11, 12

*Prerequisite:* Approval of Work Experience Education Coordinator and counselor. Paid employment of at least 10 hours per week; the majority of those hours during the weekdays, Monday through Friday. Placement is prioritized according to the following: special education, economically disadvantaged, physically handicapped, special needs referred by counselor, and seniors whose course work is supportive of current employment.

*Length:* One trimester, repeatable

*Description:* The primary goal of Work Experience Education (WEE) is employment competency through the expansion and support of the high school curriculum. Through related classroom instruction and supervised part-time work experiences, students will learn how to adapt educational skills to general occupational and employability skills. Students will learn how to: retain a job, advance on the job, successfully move on to another job, manage money, and make decisions about future career plans.

### **ROP INTRODUCTION TO SPORTS MEDICINE**

*Course Code:* 289110, 289120

*Grade Level:* 11, 12 or age 16

*Recommended Prerequisites:* Completion of freshman level science with a grade of "C" or better; completion or concurrent enrollment in Anatomy and Physiology

*Length:* Two trimesters, repeatable

*Description:* This course is designed to provide students with an introduction to athletic training, sports medicine, physical therapy and other health and medicine related careers. Students will learn the methods of prevention, evaluation, treatment and rehabilitation of athletic injuries. Lectures and laboratory activities will provide an overview of musculoskeletal anatomy and physiology. Emphasis will be placed on the prevention of injuries through proper conditioning, training, and nutrition. A major focus of the course will be the recognition of athletic injuries that occur and the ability to properly evaluate these injuries. Students will also learn the proper treatment and rehabilitation of injuries, including emergency procedures and basic first aid. Preventative taping and wrapping techniques will also be included. Students will have the opportunity to assist the athletic trainer and other allied health care professionals at a variety of health care settings to gain a "hands on" application of topics covered in the course.

### **ROP HEALTH CARE CAREERS FIELD EXPERIENCE**

*Course Code:* 289210, 289220

*Grade Level:* 11, 12 or age 16

*Prerequisite:* Must have successfully completed the ROP Introduction to Sports Medicine course or obtained consent of the instructor

*Length:* Two trimesters

*Description:* The course is designed to provide students with hands on learning in athletic training, physical therapy, strength and conditioning and other allied health care professions. Students will be required to participate in medical coverage of athletic events under the supervision of a certified athletic trainer. Students will also be required to work in physical therapy clinics, physician's offices and gyms as part of their hands on learning. All students will become first aid and CPR certified by the American Red Cross during their field experience.