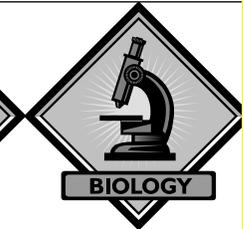
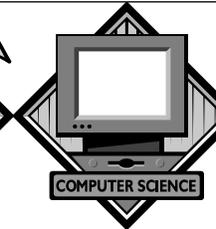
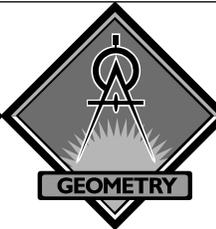




## **West Contra Costa Unified School District**

1108 Bissell Avenue, Richmond, California 94801  
Phone: (510) 231-1100 · Website: [www.wccusd.net](http://www.wccusd.net)



# **SECONDARY COURSE CATALOG**

*Published by the Office of the Associate Superintendent, K-Adult Schools*

*Revised 2010*

# TABLE OF CONTENTS

## GENERAL INFORMATION

High School Information and Contacts_____	3
WCCUSD Graduation Requirements_____	4
Education Options After High School_____	5
Subject Requirements for Admission to the UC and CSU Systems_____	6
Linked Learning_____	7

## LIST OF COURSE OFFERINGS

### CONTENT SUBJECT AREAS

Career Technology_____	8
English_____	13
Mathematics_____	17
Physical Education_____	18
Science_____	19
Social Science_____	22
Visual and Performing Arts_____	24
World Languages_____	28
Miscellaneous Electives_____	31

### ENGLISH LANGUAGE LEARNERS

Specially Designed Academic Instruction in English (SDAIE) Courses_____	33
Bilingual Spanish Speaker Courses (Richmond High only)_____	34

### SPECIALIZED HIGH SCHOOLS

Middle College _____	35
----------------------	----

LEGEND_____	37
-------------	----

***All course offerings are subject to the demonstration of sufficient student interest, availability of appropriately-credentialed staff, and Governing Board of approval of courses of study.***

## HIGH SCHOOL INFORMATION AND CONTACTS



Located on the San Francisco Bay, the West Contra Costa Unified School District (WCCUSD) serves more than 31,000 students from kindergarten through grade 12 as well as adult learners. As one of seven unified school districts in Contra Costa County, we serve the cities of Richmond, Hercules, Pinole, El Cerrito, and San Pablo and the unincorporated areas of East Richmond Heights, El Sobrante, Kensington, Bay View-Montalvin Manor, North Richmond, and Tara Hills. We are the 30th largest local education agency in California. More than 80 languages are spoken within our 65-square-mile jurisdiction.

WCCUSD has 6 comprehensive high schools and 4 alternative high schools. All high schools serve grades 9-12, with the exception of Hercules Middle High School which serves grades 6-12.

### COMPREHENSIVE HIGH SCHOOLS

#### **De Anza High School**

Principal: Robert Evans  
Address: 5000 Valley View, Richmond, CA 94803  
Phone: (510) 231-3811

#### **El Cerrito High School**

Principal: Jason Reimann  
Address: 540 Ashbury Ave, El Cerrito, CA 94530  
Phone: (510) 525-0234

#### **Hercules Middle High School**

Principal: Guy Zakrevsky  
Address: 1900 Refugio Valley Rd, Hercules, CA 94547  
Phone: (510) 231-1429

#### **John F. Kennedy High School**

Principal: Roxanne Brown-Garcia  
Address: 4300 Cutting Blvd, Richmond, CA 94804  
Phone: (510) 231-1433

#### **Pinole Valley High School**

Principal: Sue Kahn  
Address: 2900 Pinole Valley Rd, Pinole, CA 94564  
Phone: (510) 758-4664

#### **Richmond High School**

Principal: Julio Franco  
Address: 1250 23rd St, Richmond, CA 94804  
Phone: (510) 237-8770

### ALTERNATIVE HIGH SCHOOLS

#### **Gompers Continuation High School**

Principal: Latoya Williams  
Address: 157 9th St, Richmond, CA 94801  
Phone: (510) 231-1402

#### **Middle College High School**

Principal: Hattie Smith  
Address: 2600 Mission Dr, San Pablo, CA 94806  
Phone: (510) 235-7800

#### **North Campus Continuation High School**

Principal: Haidee Foust  
Address: 2465 Dolan Way, San Pablo, CA 94806  
Phone: (510) 741-2857

#### **Vista High School**

Principal: Kenneth Gardner  
Address: 2625 Barnard Rd, San Pablo, CA 94806  
Phone: (510) 231-1431

### WCCUSD ADMINISTRATION

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## WCCUSD GRADUATION REQUIREMENTS

(Subject to CHANGE / WCCUSD School Board Approval)

	WCCUSD Graduation Requirements	College Entrance Requirements	
		<i>University of California</i>	<i>California State University</i>
English Language Arts	40	40	40
Mathematics	30 Including 10 credits of Algebra I or above	30 Recommends 40	30 Recommends 40
Science	20 Biological Science (10) Physical Science (10)	20 Lab Science Recommends 30	20 Lab Science Physical Biological
Social Science	40 Cultural Geography (10)* World History (10) U.S. History (10) Government (5) Economics (5)	20	20
Physical Education	20	----	----
Fine Arts	10	10	10
World Language	10	20 Recommends 30	20
UC/CSU Electives	----	10 from 'A-G'	10 from 'A-G'
Electives	55	----	----
Other Requirements	CAHSEE Service Learning	SAT Reasoning or ACT with Writing plus 2 SAT Subject Tests	SAT Reasoning or ACT
<b>TOTAL</b>	<b>225</b>	<b>NA</b>	<b>NA</b>

Shaded boxes indicate a change in the Graduation Requirements.

\*Cultural Geography for all entering ninth grade students. For repeat 9 and entering 10, 11 & 12 grade students, another social science elective may replace Cultural Geography. Subject to change for 2008/2009 school year.

Through 2009 English Learners may meet the district foreign language graduation requirements through at least two sequential ELD classes in high school.

### California Post-Secondary Requirements

\*Note: Always refer to college catalogues for specific major requirements.

### California Community College System

Admission is granted to high school graduates. Any person who is not a high school graduate, but who is 18 years of age or older, may be admitted on probation. Students who plan to transfer to a four-year college are urged to take a college preparatory program in high school.

## EDUCATION OPTIONS AFTER HIGH SCHOOL

### CALIFORNIA COLLEGES & UNIVERSITIES

There are four types of colleges in California for those who choose to continue in academic study:



- 1) the California Community College System,
- 2) the California State University system,
- 3) the University of California system, and
- 4) the Independent or Private Colleges and Universities.

**California Community Colleges** are publicly funded schools that offer two-year programs of study as well as many career track options. This system of two-year public institutions, composed of 109 colleges organized into 72 districts statewide, serves more than 2.5 million students and represents the largest system of higher education in the world. Students can attend community college for two years and then transfer as a junior to a four-year college or university. Admissions is open to: (1) all high school graduates; (2) non-grads who have passed the CHSPE or the General Education Development Examination (GED) with a score of at least 40 on each section; or (3) non-grads who are at least 18 years old. Contra Costa College, Laney College, and Diablo Valley College are local community colleges. For more information, visit the following website: [www.cccco.edu](http://www.cccco.edu).

**The California State University (CSU)** public system was designed to accommodate the top 33% of California high school graduates. With 23 campuses, 405,000 students, and 44,000 faculty and staff, the California State University is the largest, the most diverse university systems in the country. Admission is determined by the student's GPA, plus either the ACT or SAT Reasoning Test score. The higher the GPA the lower the test score required. An applicant must have at least a GPA of 2.0 and total score on the SAT or ACT which provides an eligibility index typically placing that student among the upper one-third of California High School graduates. A student (who is a resident of California) with a GPA of 3.00 or above qualifies with any test score. The GPA is based upon grades 10 and 11, and only includes college preparatory classes. San Francisco State University, Sacramento State University, and California State University East Bay are local CSU campuses. For more information, visit the following website: [www.calstate.edu](http://www.calstate.edu).

**The University of California (UC)** public system was designed to admit the top 12.5% of students in the state. The UC system includes 9 campuses, more than 208,000 students, and 121,000 faculty and staff. Admission is determined by the student's GPA, the SAT Reasoning Test or ACT score, SAT Subject Test scores, outreach program participation, leadership, extra-curricular activity participation, work experience, and/or community service. Seniors meeting minimum eligibility requirements are guaranteed admission into at least one school in the UC system, but are not guaranteed admission to the campus of their choice. UC Berkeley, UC Santa Cruz, and UC Davis are local UC campuses. For more information, visit the following website: [www.universityofcalifornia.edu](http://www.universityofcalifornia.edu).

In addition, there are 75 nonprofit, **Independent Colleges and Universities** in California. Students wishing to apply to private schools, whether in or out of state, or out of state public schools are advised to check the specific admission requirements for the schools in which they are interested.

### COLLEGE ENTRANCE EXAMS

In addition to National and California State assessments, WCCUSD administers optional college entrance exams throughout the school year. Colleges and Universities have different entrance exam requirements. For example, the University of California requires that all applicants take the SAT or the ACT Plus Writing exam, in addition to two SAT Subject exams in two different areas. The California State University requires that all applicants take the SAT or the ACT (does not require writing component). The following exams are available to our students:

The **Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT)** is a standardized test that provides practice for the SAT. The PSAT/NMSQT measures critical reading, math, and writing skills. On **Wednesday, October 13, 2010**, all 9th, 10th, and 11th grade students will take the PSAT at their high schools free of charge. Students may pick up their PSAT Official Student Guide from their high school counselor in September. The PSAT is generally administered in grades 9-11. For more information, please visit the College Board website at: <http://www.collegeboard.com/student/testing/psat/about.html>.

The **SAT** (formerly **SAT Reasoning Test**) measures critical reading, math, and writing skills. Taking the SAT will cost the student \$47 and they may register for the test online. The SAT is administered on various Saturdays throughout the year at El Cerrito High School. The SAT is generally administered in grades 11-12. For more information, please visit the College Board website at: <http://www.collegeboard.com/student/testing/sat/about.html>.

The **ACT Assessment** and **ACT Assessment Plus Writing** assesses high school students' general educational development and their ability to complete college-level work. The multiple-choice tests cover four skill areas: English, mathematics, reading, and science. The optional Writing Test measures skill in planning and writing a short essay. Taking the ACT Plus Writing will cost the student \$48 and they may register for the test online. The ACT is administered several Saturdays throughout the year at El Cerrito High School. The ACT is generally administered in grades 11-12. For more information, please visit the ACT website at: <http://www.actstudent.org>.

The **SAT Subject Tests** measure students' knowledge and skills in particular subject areas. There are 20 separate subject tests in 5 academic areas: English, History, Math, Science, and Languages. Students pay \$31-42 per test (language tests cost more) and register online. SAT Subject Tests are administered on various Saturdays throughout the year at El Cerrito High School. The SAT Subject Tests are generally administered in grades 10-12. For more information, please visit the College Board website at: <http://www.collegeboard.com/student/testing/sat/about.html>.

**Advanced Placement (AP) Exams** are a culmination of the corresponding, year-long AP course—though you do not need to have taken the course in order to take the exam. AP Exams are administered at each WCCUSD comprehensive high school during the first two weeks of May. AP Exams cost approximately \$86 each and students sign up for the exams with their AP Teacher and/or Counselor. The AP Exams are generally administered in grades 10-12. For more information, please visit the College Board website at: <http://www.collegeboard.com/student/testing/ap/about.html>.

**Fee waivers are available to eligible students for the SAT, SAT Subject Tests, ACT, and AP Exams.** Students should contact their high school counselor for more information about fee waivers.

## SUBJECT REQUIREMENTS FOR ADMISSION TO THE UC AND CSU SYSTEMS

The table below gives the minimal subject requirements for admission to both the University of California and the California State University systems. Marks lower than "C" are not generally accepted.

HIGH SCHOOL SUBJECT AREA	UNIVERSITY OF CALIFORNIA REQUIREMENTS	CALIFORNIA STATE UNIVERSITY REQUIREMENTS
A – History/Social-Science	Two years, including one year of world history, cultures, and historical geography and one year of U.S. History or one-half year of U.S. History and one-half year of civics or American Government.	Two years, including one year of U.S. History or one-half year of U.S. History and one-half year of civics or American Government and two semesters of history/social science from either the "a" or "g" subject areas.
B - English	Four years of college preparatory English composition and literature.	Four years of college preparatory English composition and literature.
C - Mathematics	Three years of college preparatory mathematics including the topics in elementary and advanced algebra and two and three dimensional geometry. Fourth year recommended.	Three years of college preparatory mathematics including the topics in elementary and advanced algebra and geometry. Fourth year recommended.
D – Laboratory Science	Two years of laboratory science providing fundamental knowledge in at least two of these disciplines: biology, chemistry, and physics.	Two years of laboratory science including one year of physical science and one year of biological science; one must be from the "d" subject with the other from either the "d" or "g" subject area.
E – Language other than English (LOTE)	Two years of the same language other than English. Third year recommended.	Two years of the same language other than English. Third year recommended.
F – Visual and Performing Arts	One year of college preparatory visual art, dance, drama/theater or music.	One year of college preparatory visual art, dance, drama/theater or music.
G - College Preparatory Elective Courses	One year (two semesters), chosen from additional "a-f" courses beyond those used to satisfy the requirements above, or courses that have been approved solely for use as "g" electives.	One year (two semesters), chosen from additional "a-f" courses beyond those used to satisfy the requirements above, or courses that have been approved solely for use as "g" electives and agriculture.

UC Certified Course List – Go to the UC web site address and enter the school name to see your school's certified course list: <http://www.doorways.ucop.edu/list>.

See Web site at [www.Collegeboard.com](http://www.Collegeboard.com) for college testing information.

# LINKED LEARNING

## LINKED LEARNING

Linked Learning (formerly Multiple Pathways) offers high school students a choice among several different multi-year, thematic academies.

Each academy provides an integrated academic and technical program of study organized around a broad industry theme (e.g. health sciences; construction and building design; agriculture and renewable resources; and arts, media, and entertainment) that prepares high school students for a range of postsecondary options, including 2-and 4-year colleges or universities, apprenticeships, the military, formal employment training and quality careers.

Linked Learning thematic academies serve students in grades 9-12 or 10-12. Some academies are well established, while others are in early stages of implementation. Each academy is a small learning community that offers a college preparatory curriculum organized around a career theme and features industry/community/post-secondary partnerships.

## COURSE SEQUENCES

The following are example course sequences for the Engineering and Multimedia academies:

<p style="text-align: center;"><b>Engineering Academy</b> Richmond High School</p> <p style="text-align: center;"><u>10th Grade</u> English 2 World History Biology or Chemistry Intro to Engineering Design</p> <p style="text-align: center;"><u>11th Grade</u> English 3 US History Chemistry or Physics ROP Biotechnology</p> <p style="text-align: center;"><u>12th Grade</u> English 4 US Government/Economics Physics ROP Principles of Engineering</p>	<p style="text-align: center;"><b>Multimedia Academy</b> El Cerrito High School</p> <p style="text-align: center;"><u>10th Grade</u> Multimedia 1 World History English 2 Chemistry or other science</p> <p style="text-align: center;"><u>11th Grade</u> Photography or Graphics English 3 US History Physics or other science</p> <p style="text-align: center;"><u>12th Grade</u> Advanced Film Studies or Animation English 4 US Government/Economics</p>
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## CURRENT ACADEMIES

Academies are located at the following schools:

De Anza High School

- Health
- Information Technology and Communication

El Cerrito High School

- Green/Automotive & Alternative Energy
- Information Technology
- Multimedia

Hercules High School

- Health (planning year)
- Culinary, Hospitality, and Tourism (planning year)

John F. Kennedy High School

- Information Technology
- ACET (Architecture-Construction-Engineering-Technology)

Middle College High School

- Administration of Justice
- Biotechnology

Pinole Valley High School

- Environmental Studies
- Health
- Law and Justice

Richmond High School

- Creative and Performing Arts
- Engineering
- Health
- Law and Justice
- Multimedia Communications

# LIST OF COURSE OFFERINGS

## CONTENT SUBJECT AREAS

### CAREER TECHNOLOGY EDUCATION

#### **Architecture and Design CAD**

Course ID# 22300

Meets the UC/CSU (f) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies fine arts requirement for high school graduation and UC/CSU

Description: This course includes the study and application of the elements and principles of design, the study of the history of architecture and its relevant vocabulary and structural devices, and an introduction to basic technical drawing and Computer Assisted Drafting (CAD) skills.



#### **Auto Technology (ROP)**

Course ID # 4840R

Grades: 10-12 (must be 16 years of age or older)

Course Length: Year

Graduation: Satisfies elective requirement for WCCUSD graduation

Description: This course prepares students for entry-level employment and provides the knowledge and skills required to enter into advanced training in the automotive field. The course includes engine repair, fuel delivery systems, wheel alignment, computer control, air conditioning, electrical systems, brake service and repair, front-end repair, diagnostic equipment, and technical reading and writing.

#### **Computer Applications**

Course ID# 30950

Grades: 10-12

Course Length: Year

Graduation: Satisfies elective requirement for high school graduation

Description: Computer Applications is a hands-on introduction to computer hardware and software that focuses on the Microsoft Office Suite (word processing, spreadsheets, and databases). Class assignments are focused directly on keyboard performance, basic desktop publishing tasks and expectations that students may encounter in the classroom and workplace.

#### **Computer Graphic Arts [P]**

Course ID# 30600

Meets the UC/CSU (f) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement

Description: Students learn hands-on skills using the same computer equipment and software applications found in professional production shops and design studios. Software includes QuarkXPress, PageMaker, Adobe Illustrator and Adobe Photoshop. Students learn electronic page building, PostScript illustration, scanning, digital photo retouching and advanced compositing techniques. Students create business cards, flyers, brochures, magazine layouts, and newspaper advertisements.

#### **Computer Graphic Arts (ROP)**

Course ID# 2180R

Meets the UC/CSU (f) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: Students learn hands-on skills using the same computer equipment and software applications found in professional production shops and design studios. Software includes QuarkXPress, PageMaker, Adobe Illustrator and Adobe Photoshop. Students learn electronic page building, PostScript illustration, scanning, digital photo retouching and advanced compositing techniques. Students create business cards, flyers, brochures, magazine layouts, and newspaper advertisements.

#### **Computer Hardware (ROP)**

Course ID# 2112R

Grades: 11-12

Course Length: Year

Graduation: Satisfies elective WCCUSD elective requirement for graduation

Description: Students learn to test, identify, disassemble and upgrade main parts of modern computers. They learn how to diagnose, troubleshoot and repair many hardware failures, build a working system from components, set up and modify motherboards and peripherals and configure software for optimal use. With the cooperation of business and industry, students may be able to participate in internships and job shadows and could receive practical experience at a job site.

#### **Computer Programming Advanced (ROP) [P]**

Course ID# 2110R

Meets the UC/CSU (g) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school elective requirement for graduation

Description: Students use Windows-based software and C++, Visual Basic, or JAVA to develop programs for projects with emphasis on critical thinking skills, probability skills and logic. Students gain mathematical understanding of formulas, how equations are input and accessed, logical systems, the flow of code, data, use of hot links and sorting. The Internet is used for research and students may design home pages with HTML.

#### **Computer Science [P]**

Course ID# 30400

Meets the UC/CSU (g) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school elective requirement for graduation

Description: Computer Sciences is an introductory course that will develop important programming skills and concepts. Students will plan, build, and test applications and explore fundamental ideas in computer science. They will build computer programs in the Windows environment that will have a similar look and feel to Windows applications they may already use. Students will progress from simple programs and concepts to more complex programs and concepts to build relevant applications.

#### **Computer Science A [AP] (ROP)**

Course ID# 3030R

Meets the UC/CSU (g) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU elective and elective requirement for high school graduation

Description: Computer Science A emphasizes object-oriented programming methodology with an emphasis on problem solving and algorithm development and is meant to be the equivalent of a first-semester course in computer science. It also includes the study of data structures and abstraction, but these topics are not covered to the extent that they are covered in Computer Science AB

### ***Computer Science 2 AB [AP] (ROP)***

Course ID# 3035R

Meets the UC/CSU (g) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU and WCCUSD graduation requirements

Description: Intended to cover the advanced programming topics and algorithms in C++, which a student would need to pass the AP exam in Computer Science. The course covers topics in data structures, analysis of various algorithms and their differing efficiencies, and various data-handling methods. Students who pass the AP exam can earn transferable college credits.

### ***Computer Systems Management & Maintenance 1***

Course ID# 24500

Grades: 11

Course Length: Year

Graduation: Satisfies elective WCCUSD requirement for graduation

Description: In this high-paced and intellectually demanding course, students working individually and in teams develop an understanding of computer systems technology design, support, maintenance within a lab context. Students learn the basics of computer operations, network maintenance, upgrades and troubleshooting. These skills and concepts are explored in professional contexts, which lead to an understanding of pathway skills in Information Support and Services

### ***Computer Systems Management & Maintenance 2***

Course ID# 24600

Grades: 12

Course Length: Year

Graduation: Satisfies elective WCCUSD requirement for graduation

Description: This lab course builds upon the concepts of Computer Systems Management & Maintenance 1 and places special emphasis on building network solutions in a simulated "real world" environment. Students design, document, and deploy scalable business level networks. They learn Microsoft Active Directory, a technology that network professionals utilize to manage and secure network resources. Students build solutions that are secure, scalable, and easy to manage. The course also introduces students to the world of Cisco networking. Cisco routers and switches are configured and connected to simulate a corporate LAN environment. Other topics covered include VPNs, VLANs, DNS, DHCP, and IP subnetting. Students demonstrate computer literacy skills by conducting research and developing a project involving designing, securing and maintaining industry-standard data networks.

### ***Computer Program Applications for the Web 1 [P]***

Course ID# 24700

Meets the UC/CSU (g) requirement

Grades: 11

Course Length: Year

Graduation: Satisfies UC/CSU and WCCUSD elective requirement for graduation

Description: Students master the fundamental theory and concepts and industry best practices for programming within the Web environment. Computer applications theory includes analysis of complete computing systems, with emphasis on integration of database back-ends into Web front-end designs. Students use a variety of programming schemes in their work: Structured Query Language (SQL), Visual Basic for Applications (VBA), Visual Studio .NET 2005 and VB.NET. The goal of this course is student mastery of not only database objects such as tables, queries, forms and reports, but also of entity relationship diagrams, data models, database design, data analysis, object oriented programming, and the software application development life-cycle. For a final project, students work in teams to develop computer applications that analyze California State Testing results for all district high schools. Integrated throughout the course are academic, industry, and career standards, including basic academic skills, communication, interpersonal skills, problem solving, workplace safety, technology, and employment literacy.

### ***Computer Program Applications for the Web 2 [P]***

Course ID# 24800

Meets the UC/CSU (g) requirement

Grades: 12

Course Length: Year

Graduation: Satisfies UC/CSU and elective WCCUSD requirement for graduation

Description: This is the second course in Computer Program with emphasis on the theory and practice of implementing applications for the Web. Database development and integration into a Web front end is one of the areas of focus of this course. This classroom-delivery course is designed to provide the necessary concepts, theory and skills necessary for advanced placement in a computer science program and/or for an entry-level to intermediate-level position in the field of computer application and software development. Students master the fundamental concepts and practices of data normalization, data modeling, database object definition, database object manipulation, and database administration using SQL Server. Mastery of basic T-SQL and database architecture is a core focus of this class. Students also master the fundamentals of database application design using Visual Studio.NET. Students express algorithms in both T-SQL and .NET languages, namely Visual Basic .NET. As a result of a series of assignments culminating into a final project for a fictitious client, students develop database driven web reporting applications, from initial concept to final implementation, using the leading open source enterprise web application framework, DotNetNuke, and the State of California's STAR test result data. This class best prepares students for college classes and/or industry internships, or entry-level career opportunities that require demonstrable analytical and programming skills using SQL and Object Oriented Programming Languages, specifically SQL Server and Visual Basic .NET (Oracle and Java are very similar). Integrated throughout the course are academic, industry, and career

standards, including basic academic skills, communication, interpersonal skills, problem solving, workplace safety, technology, and employment literacy.

### **Construction Technology (ROP)**

Course ID # 2123R

Grades: 10-12 (must be 16 years of age or older)

Course Length: Year

Graduation: Satisfies elective requirement for WCCUSD graduation

Description: Students will have hands-on opportunities to learn all phases of basic residential construction, including carpentry, drawing and reading blueprints, drywall, electrical, flooring, painting, plumbing, roofing, tile setting, and welding. Students will make practical application at a field-site construction project.

### **Construction Technology**

Course ID # 21230

Grades: 10-12 (must be 16 years of age or older)

Course Length: Year

Graduation: Satisfies elective requirement for WCCUSD graduation

Description: Students will have hands-on opportunities to learn all phases of basic residential construction, including carpentry, drawing and reading blueprints, drywall, electrical, flooring, painting, plumbing, roofing, tile setting, and welding. Students will make practical application at a field-site construction project.

### **Digital Arts Web 1 [P] (ROP)**

Course ID# 2117R

Meets the UC/CSU (f) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: Digital Arts: Designs for the Web 1 is a college preparatory course integrating the California Visual and Performing Arts Standards. This sequence of classes will enable students to achieve an understanding and appreciation of artistic expression and be able to use that expression to enhance communication. Students will create original digital art using new and contemporary media techniques. Outside research is part of the curriculum. Students are required to critique their work and the works of others and maintain portfolios of their artwork and writing. Integrated throughout the course are career preparation standards as well as visual art and academic standards.

### **Digital Art, Design for the Web 1 [P]**

Course ID# 24900

Meets the UC/CSU (f) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: Digital Arts: Designs for the Web 1 is a college preparatory course integrating the California Visual and Performing Arts Standards. This sequence of classes will enable students to achieve an understanding and appreciation of artistic expression and be able to use that expression to enhance communication. Students will create original digital art using new and contemporary media techniques. Outside research is part of the curriculum. Students are required to critique their work and the works of others and maintain portfolios of their artwork and

writing. Integrated throughout the course are career preparation standards as well as visual art and academic standards.

### **Digital Art, Design for the Web 2**

Course ID# 25000

Grades: 11-12

Course Length: Year

Graduation: Satisfies elective WCCUSD requirement for graduation

Description: Digital Arts: Designs for the Web 2 is the advanced course in a two-course sequence on the topic of Digital Arts. This course is integrating the California Visual and Performing Arts Standards. This class will extend students' understanding and appreciation of artistic expression and be able to use that expression to enhance communication. Students will create original digital arts projects using new and contemporary media techniques. Outside research is part of the curriculum. Students are required to keep design journals, critique their work and the works of others and maintain portfolios of their artwork and writing. Integrated throughout the course are career preparation standards as well as visual art and academic standards.

### **Desktop Publishing**

Course ID# 81100

Grades: 11-12

Course Length: Semester

Graduation: Satisfies elective WCCUSD requirement for graduation

Description: This is a semester beginning applications course utilizing the Microsoft Publisher application. Emphasis is on creation of student projects including newsletters, annual reports, brochures, and promotional materials. Principles of layout and design will be practiced. This course is intended as an introduction to basic desktop publishing software. Concepts of online publishing and presentation software will also be covered.

### **Family Life Education**

Course ID# 32650

Grades: 10-12

Course Length: Year

Graduation: Satisfies 5 elective credits and 5 Life Science credits for graduation from high school

Description: This course covers relationships, human reproduction, contraception, STD/HIV education, prenatal development, childbirth, birth defects, nutrition, child growth, and development in the first year (real babies come to the class), health care and safety. The computer Baby Teen Parenting Project is a major part of the course.

### **Introduction to Health Professions**

Course ID# 6785R

Grades: 10-12 (must be 16 years of age or older)

Course Length: Year

Graduation: Satisfies high school science or elective requirement for graduation

Description: Prepares students for a possible career in the fields of Health, Athletic Management, Community Affairs, and Public Service. As the student's awareness of careers in these fields is broadened, he/she will develop necessary skills for success in a multitude of professions. Through a variety of assignments,

students will develop their reading, writing, and verbal skills as well as create a personal blueprint for lifelong health living habits.

### ***Marketing/Merchandising***

Course ID# 2215R

Grades: 12

Course Length: Year

Graduation: Satisfies elective requirement for graduation

Description: This competency-based course prepares students for entry-level positions in the retail marketing and merchandising industry. Integrated throughout the course are career preparation standards which include basic academic skills, communication, interpersonal skills, problem solving, workplace safety, technology and employment literacy. The course combines instruction with paid or unpaid internship training in local businesses. Instruction includes sales techniques, customer relations, cashing, inventory control, an overview of the retail industry, and marketing economics. Special emphasis is placed on customer service skills.

### ***Multimedia [P]***

Course ID# 22571

Meets the UC/CSU (f) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies UC/CSU fine arts and high school arts requirement for graduation

Description: Students will acquire knowledge and skills in graphic development and manipulation, basic video and desktop multimedia production, project planning, beginning web design, animation, interactive authority and critical analysis of student and professional multimedia work. Students will learn to create multimedia stories, messages and imagery using (and combining) film, text, visual effects, graphics, animation, special effects, and sound.

### ***Multimedia 2***

Course ID# 22600

Grades: 11-12

Course Length: Year

Graduation: Satisfies elective WCCUSD requirement for graduation

Description: This course is a continuation of Multimedia 1.

### ***Radio Broadcasting***

Course ID # 50300

Grades: 10-12 (must be 16 years of age or older)

Course Length: Year

Graduation: Satisfies elective requirement for WCCUSD graduation

Description: This elective course uses ever-changing technology including video switchers, mixers, a sound board, and state-of-the-art cameras to produce a broadcast to the school. Student roles include anchoring, directing, editing and producing.

### ***Robotics, Engineering Technology (ROP) [P]***

Course ID # 2111R

Meets the UC/CSU (g) requirement

Grades: 10-12 (must be 16 years of age or older)

Course Length: Year

Graduation: Satisfies UC/CSU and high school elective requirement for graduation

Description: The Physics of Electronic Robotics is an integrated Physics and Engineering Technology program that will allow students to study physics and pre-engineering in a unique way that blends a traditional science course with the principles of engineering and technology. In addition to classroom activities, experiments and labs, students will investigate physics through the design and fabrication of robotic and automated systems. Areas of study include motion and forces, matter and energy, heat and thermodynamics, waveforms, electricity and magnetism. Robotic competitions, design challenges and project based activities will be used to assess student's skills and abilities.

### ***Sports Medicine (ROP) [P]***

Course ID#6570R

Meets the UC/CSU (g) requirement

Grades: 11-12

Course Length: Year

Prerequisite: Grade "C" or better in 9th grade P.E. Core

Graduation: Satisfies elective requirement for high school graduation and UC/CSU

Description: This course is designed to explore human anatomy and physiology, and lays the foundations for further study of these sciences. Students learn how systems of the body function and interact through physical activity and develop a thorough understanding of the structure and function of the musculoskeletal system. This knowledge serves as a platform for understanding the physiological response to injury and improving performance.

### ***Teacher Cadet***

Course ID# 90370

Grades: 12

Course Length: Year

Graduation: Satisfies WCCUSD elective credit for graduation

Description: Teacher Cadet is a year-long course open to seniors interested in teaching and other careers in education and childcare. The course involves hands-on, interactive experiences in the classroom, field trips, current educational readings and job shadowing. The highlight of the experience is a six week placement in a local elementary school where Cadets apply what they have learned about teaching and child development. A bonus is that community service credit may be earned.

### ***Video Production***

Course ID# 50100

Grades: 12

Course Length: Year

Graduation: Satisfies high school elective requirement for graduation

Description: Students acquire the visual arts skills to create quality video productions. There will be an emphasis on the uses of communication (speech, language, and writing) and organizational skills. The course includes aesthetics, cultural aspects and the history of television and video production. The course begins with a comparison of the mediums of film, television and video. Students learn the basic skills to produce their own videos and then take an in-depth look at the nature of video communication. After exploring aspects of pre-production and script writing, students learn more complex skills associated with camera-work, lighting, and sound. They study the arts of directing and editing, applying them to produce a variety of projects for the teacher, themselves and the school.

**Video Production (ROP)**

Course ID# 2015R

Grades: 12

Course Length: Year

Graduation: Satisfies high school elective requirement for graduation

Description: Students acquire the visual arts skills to create quality video productions. There will be an emphasis on the uses of communication (speech, language, and writing) and organizational skills. The course includes aesthetics, cultural aspects and the history of television and video production. The course begins with a comparison of the mediums of film, television and video. Students learn the basic skills to product their own videos and then take an in-depth look at the nature of video communication. After exploring aspects of pre-production and script writing, students learn more complex skills associated with camera-work, lighting, and sound. They study the arts of directing and editing, applying them to produce a variety of projects for the teacher, themselves and the school.

**Welding**

Course ID # 22750

Grades: 10-12 (must be 16 years of age or older)

Course Length: Year

Graduation: Satisfies elective requirement for WCCUSD graduation

Description: This is an entry level Chevron sponsored Welding course covering four processes. The four processes are oxy-acc, smaw welding, mig welding and tig welding. The students will learn to dress with the appropriate clothing, observe safety procedures, and how to adjust the machines to correct temperatures. They will also learn how to join two pieces of metal together and build small projects. At the end of the course, students with passing scores will receive a Certificate of Completion. Students may apply for entry level welding jobs in the industry with this Certificate of completion. After completion of this course, students are eligible to join welding unions such as Boiler Makers Welding, Pipe-Fitters and Steam-Fitters.

**Woodshop 1**

Course ID# 50200

Grades: 9-12

Course Length: Year

Graduation: Satisfies WCCUSD elective credit for graduation from high school

Description: Students will have hands-on opportunities to learn all phases of basic wood working techniques and tools. Basic carpentry skills and safety procedures will be taught through assigned projects.

**Woodshop 2**

Course ID# 50300

Grades: 9-12

Course Length: Year

Graduation: Satisfies WCCUSD elective credit for graduation from high school

Description: This course is a continuation of Wood 1. More advanced wood working skills will be taught including, but will not be limited to, basic cabinet making techniques, carpentry drawing, and reading blueprints. Students will complete assigned projects and will have the opportunity to choose their own project as well.

**Work Experience**

Course ID# 90450

Grades: 11-12

Course Length: Year

Graduation: Satisfies graduation requirement for elective credit

Description: An opportunity for students to earn 5-10 credits per semester for working part-time while attending school. Attendance is required in a related instruction class for one period each week. Students acquire their own jobs and are required to turn in a time card each week showing hours and signed by their employer supervisor. Students must be enrolled in at least four classes at their high school and maintain satisfactory attendance and marks in these classes while working.

**Yearbook**

Course ID# 83600

Grades: 10-12

Course Length: Year

Graduation: Satisfies WCCUSD elective credit for graduation

Description: A two-dimensional art class. Students enrolled in Yearbook Design create and produce the school annual. The student staff is responsible for publishing, planning, writing, editing copy, designing and photographing pages, and obtaining funding through book and advertising sales.

**ENGLISH AND LANGUAGE ARTS**

**English 1 [P]**

Course ID# 34900

*Meets the UC/CSU (b) requirement*

Grades: 9

Course Length: Year

Graduation: Satisfies one year of the English requirement for high school graduation as well as *UC/CSU* requirement

Description: Students demonstrate their ability to read major literary works at a college preparatory level. They will also demonstrate their writing, vocabulary and language skills (sentence structure, paragraphing and punctuation) largely in the context of literature and student writing.



**English 1 Advanced [P]**

Course ID# 38700

*Meets the UC/CSU (b) requirement*

Grades: 9

Course Length: Year

Graduation: Satisfies one year of the English requirement for high school graduation as well as *UC/CSU* requirement

Description: This course is more rigorous than the English 1 [P] class. Students have more extensive reading assignments that include major works of literature. Students demonstrate their ability to read major literary works at an accelerated, college preparatory level. They will also demonstrate their writing, vocabulary and language skills (sentence structure, paragraphing and punctuation) largely in the context of literature and student writing.

**English 2 [P]**

Course ID# 35100

Meets the UC/CSU (b) requirement

Grades: 10

Course Length: Year

Graduation: Satisfies one year of the English requirement for high school graduation as well as *UC/CSU* requirement

Description: Students demonstrate their ability to read important world literature, as well as literature from our own period and culture, at a college preparatory level. Students use classic and contemporary literature as vehicles for understanding our own period, values and cultures. Through discussions, oral presentations, journal entries and papers, students also demonstrate knowledge of literary terms and techniques, as well as the principles of composition and language study (sentence structure, mechanics and punctuation)

### ***English II Advanced [P]***

Course ID# 38800

Meets the UC/CSU (b) requirement

Grades: 10

Course Length: Year

Graduation: Satisfies one year of the English requirement for high school graduation as well as *UC/CSU* requirement

Description: This course is more rigorous than the English 2 [P] class. Students enrolled in this class will read major works of literature that will prepare them in grade 11 to take an Honors level class. Full works of literature are included in addition to anthology assignments. Students demonstrate their ability to read important world literature, as well as literature from our own period and culture, at a college preparatory level. Students use classic and contemporary literature as vehicles for understanding our own period, values and cultures. Through discussions, oral presentations, journal entries and papers, students also demonstrate knowledge of literary terms and techniques, as well as the principles of composition and language study (sentence structure, mechanics and punctuation). Students will demonstrate their ability to work independently and be self-motivated.

### ***English 3 [P]***

Course ID# 35400

Meets the UC/CSU (b) requirement

Grades: 11

Course Length: Year

Graduation: Satisfies one year of the English requirement for high school graduation as well as *UC/CSU* requirement

Description: This college preparatory requirement introduces students to a survey of American Literature and traditions. The course incorporates literature based writing, vocabulary and development and language study through some of the major works in American Literature.

### ***English 3 [H]***

Course ID# 35300

Meets the UC/CSU (b) requirement

Grades: 11

Course Length: Year

Graduation: Satisfies one year of the English requirement for high school graduation as well as *UC/CSU* requirement

Description: This class is designed for those students who plan to attend a four-year college or university and recommended for those who plan to take an English Advanced Placement class

during their senior year. Students read a minimum of eight full-length works of literature and will write extensively.

### ***English 4 [P]***

Course ID# 35600

Meets the UC/CSU (b) requirement

Grades: 12

Course Length: Year

Graduation: Satisfies one year of the English requirement for high school graduation as well as *UC/CSU* requirement

Description: This college preparatory requirement introduces students to a variety of American Literature and themes and incorporates literature based writing, vocabulary development and language study through some of the major American and Cultural Classics. Students will study social events, which have influenced the American dream, and also read works that coordinate with issues taught in U.S. History.

### ***English Language and Composition [AP]***

Course ID# 36000

Meets the UC/CSU (b) requirement

Grades: 11/12

Course Length: Year

Graduation: Satisfies one year of the English requirement for high school graduation as well as *UC/CSU* requirement

Description: This course engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. This course allows students to write in a variety of forms, narrative, exploratory, expository, argumentative—and on a variety of subjects from personal experience to public policies, from imaginative literature to popular culture. Students will write effectively and confidently. The curriculum follows the rigorous demands of the College Board.

### ***English Literature and Composition [AP]***

Course ID# 36100

Meets the UC/CSU (b) requirement

Grades: 12

Course Length: Year

Graduation: Satisfies one year of the English requirement for high school graduation as well as *UC/CSU* requirement

Description: Students engage in the careful reading and critical analysis of imaginative literature. They deepen their understanding of the ways writers use language to provide both meaning and pleasure to their readers. Students consider a work of literature's structure, style and theme, figurative language, imagery, symbolism and tone. The course is both wide and deep in the analysis of literature. From 16<sup>th</sup> to 20<sup>th</sup> century works of literature will be analyzed to explore multiple genres, periods and culture. The curriculum follows the rigorous demands of the College Board.

### ***Mexican-American Literature [P] (Summer School Only)***

Course ID# 37100

Meets the UC/CSU (b) requirement

Grades: 11-12

Course Length: Semester

Graduation: Satisfies English *UC/CSU* requirement and high school elective requirement

**ENGLISH ELECTIVE CLASSES****Academic Literacy A (Corrective Reading)**Course ID# 38400Grades: 9, 10, 11Course Length: SemesterGraduation: Satisfies WCCUSD elective credit for graduationDescription: Designed to assist students who need to meet California Standards in English Reading and Language and pass the California High School Exit Exam (CAHSEE).**Academic Literacy B (Corrective Reading)**Course ID# 38450Grades: 10-11Course Length: SemesterGraduation: Satisfies WCCUSD elective credit for graduationDescription: Designed to assist students who need to meet California Standards in English Reading and Language and pass the California High School Exit Exam (CAHSEE).**Academic Literacy C (Corrective Reading)**Course ID# 38460Grades: 10-11Course Length: SemesterGraduation: Satisfies WCCUSD elective credit for graduationDescription: Designed to assist students who need to meet California Standards in English Reading and Language and pass the California High School Exit Exam (CAHSEE).**Advanced Essay [P]**Course ID# 34000

Meets the UC/CSU (b) requirement

Grades: 11-12Course Length: YearGraduation: Satisfies one year of the English requirement for high school graduation as well as UC/CSU requirement.Description: Students will work to develop skills in the writing of critical essays and analysis of literature. This is a high school level course to prepare students for the type of writing they will be required to do in college courses.**African-American Literature [P]**Course ID# 34600

Meets the UC/CSU (b) requirement

Grades: 11-12Course length: SemesterGraduation: Satisfies one year of the English requirement for high school graduation as well as UC/CSU requirementDescription: This course is designed to introduce students to African American Literature while acknowledging the historical context in which the literary works were written. This class will develop basic reading, writing and critical thinking skills utilizing text written by various African American authors. An emphasis will be placed on comprehension, vocabulary, paragraphing and short essays.**American Literature A [P]**Course ID# 34100

Meets the UC/CSU (b) requirement

Grades: 11-12Course Length: SemesterGraduation: Satisfies one semester of the English requirement for high school graduation as well as UC/CSU requirement.Description: This course focuses on literature that addresses specific issues of American society. In this class students investigate the multiple facets of "American identity," in terms of gender, class, and ethnicity. Students also analyze how the media impacts American society by looking at different musical genres, advertisements, and public documents. Ultimately, students work towards conceptualizing their identity in American society.**Creative Writing [P]**Course ID# 34700

Meets the UC/CSU (g) requirement

Grades: 9-12Course Length: YearGraduation: Satisfies elective requirement for high school graduation as well as UC/CSU elective requirementDescription: Students will study aspects of writing in journals, memoir writing, writing poetry, short stories, drama and creative non-fiction. Students will read extensively in all of these genres and write creatively in each genre. Students will explore writing and the arts in the community at large by attending poetry readings, dramatic productions and short story readings.**English Reading (Read 180)**Course ID #36250 Middle School OnlyCourse ID# 36300 High School OnlyGrades: 9-12Course Length: YearGraduation: Satisfies elective requirement for high school graduation.Description: Read 180 is a state-approved, research-based, and research-validated reading intervention program. The program serves as an intervention for students who are 2 or more years below in their reading level and is primarily aimed at developing vocabulary, fluency, and comprehension.**English CAHSEE Prep**Course ID# 38600Grades: 9-12Course Length: YearGraduation: Satisfies elective requirement for high school graduation.Description: Designed to assist students who need to meet California Standards in English Reading and Language and pass the California High School Exit Exam.**Expository Reading/Writing-CS [P]**Course ID# 38900

Meets the UC/CSU (b) requirement

Grades: 12Course Length: YearGraduation: Satisfies one year of the English requirement for high school graduation as well as UC/CSU requirementDescription: The goal of the Expository Reading and Writing Course is to prepare college-bound seniors for the literacy demands of higher education. Through a sequence of fourteen rigorous instructional modules, students in this yearlong, rhetoric-based course develop advanced proficiencies in expository, analytical, and argumentative reading and writing. The

cornerstone of the course—the assignment template—presents a process for helping students read, comprehend, and respond to non-fiction and literary texts. Modules also provide instruction in research methods and documentation conventions. Students will be expected to increase their awareness of the rhetorical strategies employed by authors, and to apply those strategies in their own writing. They will read closely to examine the relationship between an author’s argument or theme and his or her audience and purpose, to analyze the impact of structural and rhetorical strategies, and to examine the social, political, and philosophical assumptions that underlie the text. By the end of the course, students will be expected to use this process independently when reading unfamiliar texts and writing in response to them. Course texts include contemporary essays, newspaper and magazine articles, editorials, reports, biographies, memos, assorted public documents, and other non-fiction texts.

### **Journalism 1**

Course ID# 36700

Grades: 9-12

Course Length: Year

Graduation: Satisfies high school elective credit

Description: Encourages the development of an effective writing style. Students learn fundamental newspaper production procedures, headline writing, photography, layout, and newspaper mock-up. The class will be involved in the production of the student newspaper.

### **Journalism 2 [P]**

Course ID# 36850

Meets the UC/CSU (g) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school elective requirements for graduation

Description: Students continue to develop and refine skills learned in Journalism 1 as well as produce the school newspaper. In addition, Journalism 2 students are eligible to hold editorial positions on the student newspaper.

### **Oral English [P]**

Course ID# 37500

Meets the UC/CSU (g) requirement

Grades: 10-12

Course length: Year

Graduation: Satisfies UC/CSU and high school elective requirements for graduation

Description: This course is an English elective that enables students to develop competence and confidence in their speaking skills. Debate, argumentative advocacy, expository, declamatory, and descriptive speeches are some of the speech styles that will be taught to the students. Students will prepare presentations that range in length from three to ten minutes. Presentations are based on written work derived from research on topics specified by the instructor or determined by national, state or local speech association contests and debates. A two-tournament participation in local debate and speech contests is required of all students. Students may take this course for one or two years, during which they will continue to develop their speaking skills and participate in competitions.

### **Oral English Advanced [P]**

Course ID# 37420

Meets the UC/CSU (g) requirement

Grades: 10-12

Course length: Year

Graduation: Satisfies UC/CSU and high school elective requirements for graduation

Description: This course is a continuation of Oral English [P] which takes the skills from the previous course to an advanced level of application. Students participate in regional and/or national debate tournaments in a specialized style of debate. There are several debate topics throughout the year, and the students work together to research and write cases for and against the current topic. Students participate in oral debates and are judged based on their ability to provide substantial and logical support based on research in the topic area.

## **ELD - ENGLISH LANGUAGE DEVELOPMENT**

### **English Language Development (ELD 1A, 2A, 3A)**

Course ID# 13100

Course ID# 13300

Course ID# 13510

Grades: 9-12

Course Length: Year

Graduation: Satisfies WCCUSD graduation requirement for English credit

Description: Intended for non-English or limited-English speaking students. This course develops students' abilities to use English as their everyday means of communication. It consists of speaking, reading, and writing English based on daily experiences. Taken concurrently with ELD 1B, 2B, 3B.

### **English Language Development Reading (ELD 1B, 2B, 3B)**

Course ID# 13200

Course ID# 13400

Course ID# 13520

Grades: 9-12

Course Length: Year

Graduation: Satisfies WCCUSD graduation requirement for English credit

Description: Intended for those who need additional language instruction. This course follows the main sequential skills of reading with an emphasis on second language acquisition. Vocabulary development and conversation are stressed. Taken concurrently with ELD 1A, 2A, or 3A

### **English Language Development (ELD 4) [P]**

Course ID# 13530

Meets the UC/CSU (b) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school English requirement for graduation

Description: Intended for limited-English speaking students. This course develops abilities to read and write English as an everyday communication. It consists of learning to write using proper sentence structure.

## **MATHEMATICS**

Mathematics is offered in three college preparatory sequences. Generally, students take a four-year sequence that fulfills the entrance requirements to both UC/CSU systems.



For those beginning this sequence in the 9th grade, the courses taken are Algebra 1, Geometry, Algebra 2 or Algebra 2/Trigonometry, and Pre-Calculus. Students who completed Algebra 1 prior to entering the 9th grade are encouraged to take a sequence of classes that prepares them for the Calculus Advanced Placement exam as seniors. Those who do well on this test receive a year of credit at most colleges. For those beginning this sequence in the 9th grade, the courses taken are Geometry [P], Algebra 2/Trigonometry [P], Pre Calculus [H] and Calculus [AP].

### ***Algebra 1 [P]***

Course ID# 51000

Meets the UC/CSU (c) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies one year of the math requirement for both UC/CSU and high school graduation

Description: This is a first year algebra course in which students will learn how to solve problems with the first semester focused on linear equations and constant rates of change followed by problems that involve quadratic functions and systems of linear equations. They will use reasoning skills, their knowledge of properties of numbers, inverse operations, graphing and other algebraic techniques to solve linear equations and quadratic equations, as well as connect those solutions to their corresponding graphs. Students will know that functions have multiple representations: a set of points, a graph, an equation, and a situation. The course also includes exponents, polynomial arithmetic, rational expressions and ratio and proportion.

### ***Geometry [P]***

Course ID# 51800

Meets the UC/CSU (c) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies one year of the math requirement for both UC/CSU and high school graduation

Description: This course focuses on problem solving within the setting of Euclidean and coordinate geometry. Important skills and concepts include: angle relationships within plane figures and those of lines cut by a transversal; distance, area, surface area and volume; triangle similarity and proportion; similarity and congruence of polygons; and transformations. Students will learn the subtleties of the Pythagorean Theorem through its proof and applications. They will learn and apply right triangle trigonometry. Students will develop their ability to construct and articulate logical, convincing arguments that includes a facility with formal proof and deductive reasoning, and recognizing the patterns of inductive reasoning.

### ***Algebra 2 [P]***

Course ID# 51150

Meets the UC/CSU (c) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies one year of the math requirement for both high school graduation and UC/CSU math requirement.

Description: This is a course that completes all topics of second-year Algebra: linear functions, systems of linear equations and inequalities, quadratic functions and complex numbers, exponential and logarithmic functions, rational and irrational algebraic functions, quadratic relations, higher degree functions and polynomials, sequences and series, introduction to probability and statistic. The course includes mathematical modeling of real-world problems. Appropriate technology: graphing calculators, and computer software, is used to further explore and deepen mathematical understanding of concepts presented by the course

### ***Algebra 2/Trigonometry [P]***

Course ID# 51100

Meets the UC/CSU (c) requirement

Grades: 10-11

Course Length: Year

Graduation: Satisfies one year of the math requirement for both UC/CSU and high school graduation

Description: This is a course that completes all topics of second-year Algebra: linear functions, systems of linear equations and inequalities, quadratic functions and complex numbers, exponential and logarithmic functions, rational and irrational algebraic functions, quadratic relations, higher degree functions and polynomials, sequences and series, circular and trigonometric functions, introduction to probability and statistics. The course includes mathematical modeling of real-world problems. Appropriate technology: graphing calculators, and computer software, is used to further explore and deepen mathematical understanding of concepts presented by the course.

### ***Pre Calculus [H]***

Course ID# 52400

Meets the UC/CSU (c) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies one year of the math requirement for UC/CSU and high school graduation.

Description: This course will complete all topics necessary for success in Calculus: coordinate geometry, elementary functions including inverses and transformations, rational functions and their graphs, conic sections including rotation of axes, exponential and logarithmic functions including growth and decay and Gaussian models, all topics from the trigonometry framework including graphing trigonometric functions and their inverses, composition of trigonometric functions, polar coordinates, polar graphing, polar form of complex numbers, DeMoivre's Theorem, Trigonometric identities, triangle trigonometry for right triangles and non-right triangles, sequences, series, sigma notation, proof by mathematical induction, topics in linear algebra, analytic geometry in three dimensions, and introduction to limits.

### ***Statistics [AP]***

Course ID# 52960

Meets the UC/CSU (c) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies one year of math requirement for both UC/CSU and high school graduation

**Description:** The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1) Exploring Data: Describing patterns and departures from patterns, 2) Sampling and Experimentation: Planning and conducting a study, 3) Anticipating Patterns: Exploring random phenomena using probability and simulation, and 4) Statistical Inference: Estimating population parameters and testing hypotheses.

**Calculus AB [AP]**

Course ID# 51400

Meets the UC/CSU (c) requirement

Grades: 12

Course Length: Year

Graduation: Satisfies one year of the math requirement for both UC/CSU and high school graduation

Description: The objective of this course is to provide the student with the equivalent of the first year of college mathematics. The course of study follows that of the Advanced Placement Program. Students who satisfactorily complete the course will take an Advanced Placement Examination in Mathematics, accepted by most colleges as evidence that the student has mastered the material for the first year of college mathematics and should be given credit and/or special placement in college. The course content includes the following: functions and limits, derivatives of algebraic functions, the definite indefinite integral, area, volumes of revolution, differentiation of exponential, logarithmic, trigonometric and inverse trigonometric functions, methods of integration, infinite series, simple differential equations, vectors and applications.

**Calculus BC [AP]**

Course ID# 51450

Meets the UC/CSU (c) requirement

Grades: 12

Course Length: Year

Graduation: Satisfies one year of the math requirement for both UC/CSU and high school graduation

Description: The objective of this course is to build upon the foundations provided in the Calculus (AB) course. The course is based upon the College Board’s AP Calculus curriculum and students are expected to take the Calculus AB Advanced Placement exam. The course content is determined by the course description for Calculus BC Advanced Placement and the California Calculus Content Standards.

**ELECTIVE CLASSES- MATHEMATICS**

**Math Academic Support 1**

Course ID# 53710

Grades: 9

Course Length: Year

Graduation: Satisfies elective requirement for high school graduation.

Description: This course for selected students is designed for students to take along with Algebra I. Students will have daily help with concepts and skills that they will study in Algebra I, prepare for tests, have help with difficult ideas, and assistance with concepts that they are expected to know for the CAHSEE. Passing Algebra I and the CAHSEE exam are requirements for earning a high school diploma.

**Math CAHSEE Prep**

Course ID# 53600

Grades: 9-11

Course Length: Year

Graduation: Satisfies elective requirement

Description: This year long course for selected students is designed for to assist students in mastering the skills tested on the CAHSEE.

**Probability and Statistics [P]**

Course ID#52950

Meets the UC/CSU (c) requirement

Grades: 12

Course Length: Year

Graduation: Satisfies one year of math requirement for both UC/CSU and high school graduation.

Description: This course will introduce the student to basic statistical theory. Topics such as data analysis (gathering, displaying and summarizing of data), probability (laws of chance) and statistical inference (drawing conclusions from data) Students will apply these theories to a wide variety of situations where statistics plays a crucial role in the modern world.

**PHYSICAL EDUCATION**

**Physical Education Core**

Course ID# 64600

Grades: 9

Course Length: Year

Graduation: Satisfies graduation requirement for P.E.

Description: Required for all 9th grade students.

All students must pass two years of physical education before graduation. This class will cover a wide variety of team and individual sports.



**Physical Education Core**

Course ID# 64650

Grades: 10

Course Length: Year

Graduation: Satisfies graduation requirement for P.E.

Description: Required for all 10th grade students. All students must pass two years of physical education before graduation. This class will cover a wide variety of team and individual sports.

**Adaptive Physical Education**

Course ID# 64000

Grades: 9-10

Course Length: Year

Graduation: Satisfies graduation requirement for P.E.

Description: Students with IEP’s that stipulate adaptive physical education may take this course instead of the regular PE required for graduation.

**Physical Education Aerobics**

Course ID# 64100

Grades: 10-12

Course Length: Year

Prerequisite: Grade ‘C’ or better in 9th grade P. E. Core

Graduation: Satisfies graduation requirement for P.E. or elective credit

Description: Cardiovascular exercises and routines which may be

performed to music. The students will gain cardiovascular and muscular endurance, strength, balance, flexibility, rhythm, and timing. The course will emphasize physical fitness and weight control.

**Physical Education Sports Non-Contact**

Course ID# 65100

Grades: 9-11

Course Length: Year

Graduation: Satisfies graduation requirement for P.E. or elective credit

Description: All students must pass two years of physical education before graduation. This class will cover a wide variety of team and individual sports.

**Physical Education Athletics**

Course ID# 64300

Grades: 10-12

Course Length: Year

Graduation: Satisfies graduation requirement for P.E. or elective requirement

Description: For students who are on interscholastic athletic teams to provide advanced training in team and individual sports.

**Physical Education Bowling**

Course ID# 64400

Grades: 10-12

Course Length: Year

Graduation: Satisfies P.E. or elective requirement for high school graduation

Description: Designed to meet the needs of students who wish to develop skills in a lifetime leisure activity. Instruction and equipment will be provided. There will be a \$1.50 charge for use of the bowling lanes during bowling days. Students must walk to and from the bowling alley. Students will be expected to observe "bowling courtesies" while bowling. Students must abide by district and school rules while going to and from and while at bowling. Students not abiding by district/school rules are subject to suspension and removal from the class.

**Physical Education Weight Training**

Course ID# 65300

Grades: 10-12

Course Length: Year

Graduation: Satisfies P.E. or elective requirement for high school graduation

Description: This course will provide the student with instruction in proper methods of running, weight lifting, weight workouts, and competition lifting in the appropriate weight class.

**Physical Education: Individual Sports**

Course ID# 64900

Grades: 10-12

Course Length: Year

Graduation: Satisfies graduation requirement for P.E. or elective credit

Description: In this course, students will learn individual sports that they may use their entire life.

**Athletic Fitness (ROP)**

Course ID# 2055R

Grades: 11-12

Course Length: Year

Prerequisite: Grade "C" or better in 9th grade P.E. Core class

Graduation: Satisfies elective requirement for high school graduation

Description: This course is designed to give student an overview of various team sports and the understanding of the necessary nutrition, training, equipment and injury prevention for athletes. There will be participation as trainers and managers for sporting events. The course is designed to help students obtain some skills that may be useful in obtaining summer employment with city recreation departments.

**Sports Medicine (ROP) [P]**

Course ID#6570R

Meets the UC/CSU (g) requirement

Grades: 11-12

Course Length: Year

Prerequisite: Grade "C" or better in 9th grade P.E. Core

Graduation: Satisfies elective requirement for high school graduation and UC/CSU

Description: This course is designed to explore human anatomy and physiology, and lays the foundations for further study of these sciences. Students learn how systems of the body function and interact through physical activity and develop a thorough understanding of the structure and function of the musculoskeletal system. This knowledge serves as a platform for understanding the physiological response to injury and improving performance.

**SCIENCE**



**Biology [P]**

Course ID# 66300

Meets the UC/CSU (d) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies Life Science lab requirement for UC/CSU and high school life science requirement for graduation

Description: The study of life from the molecular level, cellular level to the whole organism. Includes the study of interactions and interrelationships of living things and their environment. This course is designed to equip the student with independent study skills and basic background to compete successfully in higher lab science courses in high school.

**Biology Accelerated [P]**

Course ID# 66010

Meets the UC/CSU (d) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies Life Science lab requirement for UC/CSU and high school life science requirement for graduation

Description: An advanced study of life from the molecular level, cellular level to the whole organism. Includes the study of interactions and interrelationships of living things and their environment. This course is designed to equip the student with independent study skills and basic background to compete successfully in higher lab science courses in high school.

**Biology [AP]**

Course ID# 66000

Meets the UC/CSU (d) requirement

Grades: 11-12

**Course Length:** Year

**Graduation:** Satisfies Life Science lab requirement for UC/CSU and high school life science or elective requirement for graduation

**Description:** Introductory college-level course in biology with lab work, field trips, guest speakers, and class discussions. Provides students with challenging and stimulating coursework and a current approach to research. Students learn about new developments in various areas of biology, including genetics, recombinant DNA techniques, the immune system, and the brain. Fulfills UC Lab Science requirement. Students who pass the Advanced Placement test qualify for transferable college credit.

**Chemistry [P]**

**Course ID#** 66700

Meets the UC/CSU (d) requirement

**Grades:** 10-12

**Course Length:** Year

**Graduation:** Satisfies Physical Science lab requirement for UC/CSU and high school physical science requirement for graduation

**Description:** Students study of the structure and properties of matter and the changes it undergoes. It emphasizes the development of chemical principles and theories on the basis of experimental data and includes many laboratory experiments and demonstrations.

**Chemistry [AP]**

**Course ID#** 66600

Meets the UC/CSU (d) requirement

**Grades:** 11-12

**Course Length:** Year

**Graduation:** Satisfies Physical Science lab requirement for UC/CSU and high school physical science or elective requirement for graduation

**Description:** A college level chemistry course. Students study general chemical concepts in greater depth than in first-year chemistry, and are introduced to the most recent developments in the field. The treatment of the topics in this course is qualitatively different from that in chemistry with regard to calculations and the mathematical foundation of chemical principles. Students completing this course are encouraged to take the Advanced Placement exam and will transferable college credit if passed at a "3" or higher.

**Physics [P]**

**Course ID#** 68700

Meets the UC/CSU (d) requirement

**Grades:** 11-12

**Course Length:** Year

**Graduation:** Satisfies Life Science lab requirement for UC/CSU and high school physical science or elective graduation requirement

**Description:** Fundamental principles governing physical processes in the universe. Topics included are the study of motion, Newtonian mechanics, conservation of momentum and energy, thermodynamics and heat, waves, sound, light, electricity and magnetism, atomic and nuclear physics. Emphasizes conceptual understanding of principles and mathematical problem solving skills. This course is for students completing a major in biological or physical sciences, engineering, medicine, or advanced technology, etc.

**Physics [H]**

**Course ID#** 68650

Meets the UC/CSU (d) requirement

**Grades:** 11-12

**Course Length:** Year

**Graduation:** Satisfies Life Science lab requirement for UC/CSU and high school physical science or elective requirement for graduation

**Description:** Advanced principles governing physical processes in the universe. Topics included are the study of motion, Newtonian mechanics, conservation of momentum and energy, thermodynamics and heat, waves, sound, light, electricity and magnetism, atomic and nuclear physics. Emphasizes conceptual understanding of principles and mathematical problem solving skills. This course is for students completing a major in biological or physical sciences, engineering, medicine, or advanced technology, etc.

**Physics B [AP]**

**Course ID#** 68600

Meets the UC/CSU (d) requirement

**Grades:** 12

**Course Length:** Year

**Graduation:** Satisfies Physical Science lab requirement for UC/CSU and high school physical science graduation requirement

**Description:** This course is the second year of Physics and is equivalent to the introductory course for Physics or Engineering major in a typical university. This course incorporates calculus in the development of theory as well as in problem solving. AP Physics will include only Mechanics, Electricity and Magnetism. The main emphasis will be on application of concepts and advanced problem-solving. The course will prepare students to take the AP Physics-C test.

**Engineering Physics [P]**

**Course ID#** 68755

Meets the UC/CSU (d) requirement

**Grades:** 10-12

**Course Length:** Year

**Graduation:** Satisfies Science lab requirement for UC/CSU and high school physical science or elective graduation requirement

**Description:** Engineering Physics provides an introduction to essential concepts, principles and practices of engineering physics. The course engages students in learning physics through engineering applications and emphasizes problem solving, analytical thinking and concept development. Students complete a series of laboratory experiments and projects, including building catapults, bridges, robots, and models of solar homes.

**SCIENCE ELECTIVE CLASSES*****Analytical Forensic Science [P]***Course ID# 66050

Meets the UC/CSU (g) requirement

Grades: 11-12Course Length: YearGraduation: Satisfies UC/CSU and high school elective graduation requirementDescription: Emphasis is on understanding the underlying scientific theories of forensic science, with special emphasis on chemistry. The class will build upon the student's prior knowledge of biology and chemistry, using analytical chemistry techniques to analyze and identify trace evidence, including DNA. Students will evaluate the constituents of materials by organic, inorganic, and biochemical analysis, and use their academic and laboratory skills to develop a deeper understanding of science. This class prepares students to further their science education at the university level and introduces them to the possibilities of a science related career.***Biotechnology 1 [P]***Course ID# 66050

Meets the UC/CSU (d) requirement

Grades: 12Course Length: YearGraduation: Satisfies Physical Science lab requirement for UC/CSU and high school physical science graduation requirementDescription: Students learn and master basic and advanced laboratory techniques in Biotechnology. Students learn advanced concepts of Molecular Biology and Genetics. Ethical issues concerning these techniques on society are analyzed. Emphasis is placed on Biotechnology as a career.***Biological Sciences Lab Research [P] (ROP)***Course ID# 6640R

Meets the UC/CSU (g) requirement

Grades: 12Course Length: YearGraduation: Satisfies elective requirement for UC/CSU and high school physical science graduation requirementDescription: This course is a continuation of Biotechnology 1. This is a one-year laboratory science course for students interested in hands-on science. Each student will choose a research project representative of the biological sciences, involving primarily laboratory experimentation. Students will use the Internet to access information, communicate with scientists regarding their research topic, and use additional off campus sites to access data. Computers will be used to both graphically represent and analyze student data. Scientific journal writing formats will be used in project presentation. Strong emphasis is placed on Biotechnology as a career.***Environmental Science I***Course ID# 67210Grades: 10-12Course Length: YearGraduation: Satisfies elective credit or science requirement for graduationDescription: The first of three sequential environmental science courses intended for three-year Environmental Studies Academy program. Course content and goals are integrated with the other Academy courses and covers fundamental principles of

biology, chemistry and physics required in environmental science. There is an emphasis on environmental chemistry and mapping. Topics include water chemistry, soil structure, chemistry of metal refining, petroleum chemistry, and park design. Course requires off-campus field research trips including field investigations of Pinole Creek.

***Environmental Science II [P]***Course ID# 67230

Meets UC/CSU (d) requirement

Grades: 11Course Length: YearGraduation: Satisfies Physical Science or Life Science lab requirement for UC/CSU and high school science requirement for graduationDescription: A continuation of Environmental Science 1, this course is intended for the three-year Environmental Studies Academy program. The course content and goals are integrated with the other courses in the Academy. Although many principles of biology, chemistry and physics are covered, this course offers a concentration on the fundamental principles of ecology. Topics include community structure, biodiversity, energy flow and pyramids, and ecological productivity. This course requires several off campus field trips, including field investigations of Pinole Creek and Wetlands.***Environmental Science [AP]***Course ID# 67250

Meets UC/CSU (d) requirement

Grades: 12Course Length: YearGraduation: Satisfies Physical Science or Life Science lab requirement for UC/CSU and high school science requirement for graduationDescription: Designed to be equivalent to a one-semester, introductory college course in environmental science enabling students to undertake, as first-year college students, a more advanced study in environmental science, or to fulfill a basic requirement for a laboratory science. Provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world; to identify and analyze environmental problems both human-made and natural; to evaluate the relative risks associated with these problems; and to examine alternative solutions for resolving and for preventing them. There is a student designed, year-long project that requires a strong laboratory and field investigation component. The course is integrated with other Academy courses. Priority given to students enrolled in the Academy for placement into Environmental Science 3 AP.***Physiology [P]***Course ID# 68800

Meets the UC/CSU (d) requirement

Grades: 11-12Course Length: YearGraduation: Satisfies Life Science lab requirement for UC/CSU and high school science graduation requirementDescription: A detailed study of the functions of the human body that includes the study of cell structure and specialization, the skeletal system, muscles, nervous system, digestion, respiration, circulation, the skin, excretion, endocrine system, reproduction and heredity, including the latest information on the structure

and function of DNA. There will be extensive lab work in animal dissection and microscopic investigation.

## **SOCIAL SCIENCE**

### ***Foundations: Cultural Geography [P]***

Course ID# 75360

Meets the UC/CSU (a) requirement

Grades: 9

Course Length: Year

Graduation: Satisfies UC/CSU and high school social science requirement for graduation

Description: An in depth examination of the interchanges among members of various cultures who have settled in the Bay Area from early times to today. The course builds upon the identities of the students in the high schools and supports them in understanding self and others. The course builds upon the ideas and academic standards found in the History/Social Science State framework (9th grade electives section) as well as the California standards for Historical and Social Science Analysis Skills. Students will better understand the world's cultural geography through looking at major waves of immigration in the Bay Area.

### ***Geography [P]***

Course ID# 74350

Meets the UC/CSU (a) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies the Social Science requirement for UC/CSU and high school elective requirement for graduation

Description: A survey course in which students study the relationship between earth and its people. The framework includes three main areas of inquiry: how various geographic features influence the development of civilization; how the study of geography to predict future social, political and economic trends occurs; and how geography affects cultural ethnicity, language and religion. This class meets the California State Framework for Social Science.

### ***World History [P]***

Course ID# 75900

Meets the UC/CSU (a) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies the requirement for UC/CSU and high school requirement for graduation

Description: Survey of the history of the world, its civilizations, people, geography, and development, beginning with the Renaissance. Emphasis is on modern times and the origins and roots of current situations and problems. This class meets the California State Framework for Social Science.

### ***World History [AP]***

Course ID# 75960

Meets the UC/CSU (a) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies the requirement of UC/CSU and high school World History requirement for graduation

Description: This course follows the Advanced Placement guidelines and curriculum. Extensive reading and research is required. Survey of the history of the world, its civilizations,



people, geography, and development, beginning with the Renaissance. Emphasis is on modern times and the origins and roots of current situations and problems. This course will include rigorous reading and writing assignments and should be taken by students who plan on taking AP US History and AP American Government.

### ***U.S. History [P]***

Course ID# 75600

Meets the UC/CSU (a) requirement

Grades: 11

Course Length: Year

Graduation: Satisfies the U.S. History requirement for UC/CSU and U.S. History requirement for graduation

Description: An overview of American history with emphasis on significant people, groups, institutions, events, and places from the post-Civil War period to the present, and follows the California State Framework for Social Science.

### ***U.S. History [AP]***

Course ID# 75500

Meets the UC/CSU (a) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies the U. S. History requirement for UC/CSU and high school social science requirement for graduation

Description: Covers American history from colonial times to the present. In-depth reading in American history with written book reviews, practice essays and lectures designed to prepare students to take the Advanced Placement Exam.

### ***American Government [P]***

Course ID# 72800

Meets the UC/CSU (a) requirement

Grades: 12

Course Length: Semester

Graduation: Satisfies the American Government requirement for UC/CSU and high school American Government requirement for graduation

Description: A one semester course on the American system of government, beginning with theoretical foundations, comparative political systems and historical origins. Basic units will include the study of the executive, legislative and judicial branches, the American political process, civil rights, domestic issues, international problems, and state, county and local governments and follows the California State Framework for Social Science. This class is paired with Economics in the alternate semester.

### ***American Government [H]***

Course ID# 72700

Meets the UC/CSU (a) requirement

Grades: 12

Course Length: Semester

Graduation: Satisfies the American Government requirement for UC/CSU and high school American Government requirement for graduation

Description: A one semester course on the American system of government, beginning with theoretical foundations, comparative political systems and historical origins. Basic units will include the study of the executive, legislative and judicial branches, the American political process, civil rights, domestic issues, international problems, and state, county and local governments and follows the California State Framework for Social Science.

This class is paired with Economics in the alternate semester. This course meets the University of California honors requirements.

***Government and Politics: United States [AP]***

Course ID# 72850

Meets the UC/CSU (a) requirement

Grades: 12

Course Length: Semester

Graduation: Satisfies the American Government requirement for UC/CSU and high school social science requirement for graduation

Description: An in-depth survey of the structure and functions of federal, state, and local governments, including extended units on constitutional underpinnings of US democracy; political beliefs and behavior, political parties and interest groups; Congress; the federal branches of government; civil rights; and other government issues and arenas. Designed to prepare students for the Advanced Placement examination in American Government.

***Economics [P]***

Course ID# 74000

Meets the UC/CSU (g) requirement

Grades: 12

Course Length: Semester

Graduation: Satisfies the Economics requirement for high school and UC/CSU elective requirement

Description: A study of the principles of economics. Students will explore how our limited resources are used to satisfy wants, how goods and services are produced and distributed, and how the economic system of the United States compares with other systems. This class is paired with American Government in the alternate semester.

***Economics Micro [AP]***

Course ID# 73850

Meets the UC/CSU (g) requirement

Grades: 11-12

Course Length: Semester

Graduation: Satisfies the Economics requirement for high school and UC/CSU elective requirement

Description: This is a semester course covering Microeconomics. The course is designed to prepare the students to take the AP Exam in May. The class follows the curriculum of the college board AP schedule and all teachers of the course have been trained by the College Board institutes. Students complete a rigorous level of coursework with past AP free response questions, multiple choice exams and economic activities. Macroeconomics is taken in the next semester.

***Economics Macro [AP]***

Course ID# 73800

Meets the UC/CSU (g) requirement

Grades: 11-12

Course Length: Semester

Graduation: Satisfies the Economics requirement for high school and UC/CSU elective requirement

Description: This is a semester course covering Macroeconomics. The course is designed to prepare the students to take the AP Exam in May. The class follows the curriculum of the college board AP schedule and all teachers of the course have been trained by the College Board institutes. Students complete a

rigorous level of coursework with past AP free response questions, multiple choice exams and economic activities. Students take this course in the second semester after completing Microeconomics.

***European History [AP]***

Course ID # 74100

Meets the UC/CSU (a) requirement

Grades: 12

Course Length: Semester

Graduation: Satisfies social science requirement for high school and UC/CSU elective requirement

Description: The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing.

**ELECTIVE CLASSES- SOCIAL SCIENCE**

***Intro to Law [P]***

Course ID# 73450

Meets the UC/CSU (g) requirement

Grades: 10-11

Course Length: Year

Graduation: Satisfies UC/CSU and high school elective requirements for graduation

Description: This course introduces students to legal concepts, principles and procedures. The course is designed to provide students with an understanding of the structure of the U.S. legal system including the role of the judicial, legislative and executive branches; the history of law in the United States; the role of attorneys, law enforcement and other legal professionals; categories of law; litigation principles; and alternative dispute resolution. The course involves substantial reading and writing. Students also participate in trial simulations, debates and have opportunities to work with legal professionals.

***Leadership***

Course ID# 74600

Grades: 9-12

Course Length: Year

Graduation: Satisfies elective credit for high school graduation

Description: Leadership students distinguish themselves by their desires to be involved in school community activities and to have an impact on their society. Besides initiating, coordinating, and evaluating school activities and community projects, students also develop leadership skills in communication, decision-making, time management, goal setting, leadership styles, conflict management, team building, and delegation of duties. District and league exchange days with other schools are planned.

***Law and Justice [P]***

Course ID# 74550

Meets the UC/CSU (g) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies elective credit for UC/CSU and high school graduation.

Description: This is the study of the history and philosophy of justice as it has evolved throughout the world as well as an in-depth study of the American justice system and its various sub-systems. The course covers the interrelationships of criminal justice agents and their relationships in society; concepts of crime causation, punishments, and rehabilitation; ethics, education; and training for professionalism in the social system.

**Law & Society [P] (Pending UC Submission and Acceptance)**

Course ID# pending

Meets the UC/CSU ( ) requirement {Pending}

Grades:

Course Length: Year

Graduation:

Description:

**Psychology [P]**

Course ID# 75000

Meets the UC/CSU (g) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies the elective requirement for UC/CSU and high school graduation

Description: This course is a general introduction to the science of human behavior with focus on the individual. The course considers personality, growth and development, classic theories (Freud, Adler, Rogers, etc.) and psychological disorders. Emphasis will be placed on classroom experiments and project-based learning.

**World War II [P]**

Course ID # 76100

Meets the UC/CSU (g) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies high school elective requirement for graduation and elective requirement for UC/CSU

Description: This course teaches the history of World War II through a variety of teaching methods, including guest speakers, films, eyewitness oral histories, maps, slides, debates, a mock war crimes trial, and a powerful simulation about the Holocaust. The focus of the course is to analyze the extent of how moral character and conduct affected the history of events from 1914 to 1950.

**VISUAL AND PERFORMING ARTS**

**3-D Design and Animation [P]**

Course ID# 30500

Meets the UC/CSU (f) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: Learn animation through theory and hands-on



training in art fundamentals, drawing, cartooning, animation basics, and an introduction to computer graphics imaging. Study art theory, composition, color, spatial concepts, rendering and animation, and using creativity and imagination to convey ideas and tell a story.

**Art & Animation (ROP) [P]**

Course ID# 2235R

Meets the UC/CSU (f) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation.

Description: This comprehensive ROP supported program introduces students to animation through theory and hands-on training in art fundamentals, drawing, cartooning, and animation basics. It also includes an introduction to computer graphics imaging. Students will study art theory, composition, color, spatial concepts, rendering and animation, using creativity and imagination to convey ideas and tell a story.

**Beginning Art [P]**

Course ID# 80000

Meets the UC/CSU (f) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: This two dimensional art class involves a great variety of drawing and painting projects. Students will work on abstract, realistic and design projects using such materials as pencil, watercolors, tempera, ink, and many more. Also includes collages, some art history, and critique. Study of three-dimensional craft projects and computer graphics will be included.

**Art Advanced [P]**

Course ID# 80100

Meets the UC/CSU (f) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: Art Advanced students will explore more complicated elements of Art and Principals of Design. They will work at an advanced skill level in a variety of two-dimensional and three-dimensional media. Creative experimentation with media and subject matter is encouraged. Special talents and interest in the arts and art-related fields are addressed. Students participate in the exhibition of their work. Students will also learn about Art History through historical art periods and contemporary artists.

**Ceramics 1**

Course ID# 80500

Grades: 10-12

Course Length: Year

Graduation: Satisfies fine arts or elective requirement for high school graduation

Description: Ceramics 1 is a basic, exploratory course in ceramics, with emphasis on hand-building techniques. Pinch, coil, slab and slip molding methods will be explored. Introduction to wheel throwing, glazing and decorating are

presented. The works of historic and contemporary ceramic artists are presented. There is a fee for materials.

### ***Commercial Art (ROP)***

Course ID# 8020R

Grades: 9-12

Course Length: Year

Graduation: Satisfies fine arts requirement for high school graduation

Description: Emphasis is placed on commercial applications of art as applied to the fields of graphic design and illustration. Theory, as well as hands-on approaches and the use of the computer, allow you to experience 3-D design and its execution in a variety of media. Media and processes include paint, ink, clay, airbrush, and computer graphics. Design elements of line, shape, color, texture, value and space are utilized as tools to create art styles that fit commercial needs.

### ***Crafts***

Course ID# 80700

Grades: 9-12

Course Length: Year

Graduation: Satisfies fine arts requirement for graduation from high school

Description: A three-dimensional survey art class. Students will explore a variety of crafts media including ceramics, stained glass, jewelry, leather, wood, plastic, fabric art, printmaking, batik, etc. This course will be a foundation for students who later enroll in specialized three-dimensional classes. There is a materials fee for some of the class projects.

### ***Multimedia 1 [P]***

Course ID# 22571

Meets the UC/CSU (f) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: Students will acquire knowledge and skills in graphic development and manipulation, basic video and desktop multimedia production, project planning, beginning web design, animation, interactive authority and critical analysis of student and professional multimedia work. Students will learn to create multimedia stories, messages and imagery using (and combining) film, text, visual effects, graphics, animation, special effects, and sound.

### ***Multimedia 2***

Course ID# 22600

Grades: 11-12

Course Length: Year

Graduation: Satisfies fine arts or elective requirement for graduation

Description: This course is a continuation of Multimedia 1.

### ***Photography [P]***

Course ID# 82600

Meets the UC/CSU (f) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: This is a two-dimensional art class. Students study

the processes involved in taking photographs and producing finished prints. Students should own or have access to a 35 mm SLR camera and need to purchase materials used in this course.

### ***Photography Advanced [P]***

Course ID# 82700

Meets the UC/CSU (f) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: A two-dimensional art class. Designed for students seeking career level skills in photography and photo printing. Students exhibit work in community and school shows and are required to complete a portfolio. Students purchase some materials used in this course. Students should own or have access to a 35mm SLR camera.

### ***Studio Art 2D Design [AP]***

Course ID# 80150

Meets the UC (f) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies both UC/CSU and high school fine arts requirement for graduation.

Description: This course is designed for highly motivated students who are seriously interested in the study of Art and who wish to pursue college-level studies while in high school. It enables art students to conceptualize images, to develop quality artwork, and to develop an area of concentration. Students will acquire depth and breadth of understanding of the principles and elements of art. Students will work toward portfolio submission for advanced placement credit. This is a two-year program. There may be a special art supply fee charged.

### ***Advanced Visual Arts [P]***

Course ID# 83450

Meets the UC/CSU (f) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: Students will study vocabulary unique to art and will apply the elements of art and principles of design to their creations. In their original work they will communicate meaning, intent, feeling and emotions using a variety of media. Students will learn how history and culture has influenced art and artists worldwide. The class is a combination of studio work, written and reading homework assignments, and the compilation of an individual portfolio of each student's work.

### ***Beginning Band***

Course ID# 55800

Grades: 9-12

Course Length: Year

Graduation: Satisfies fine arts requirement for high school graduation

Description: This course is designed to give students technical instruction on their instruments while performing as a group or individually. The students will receive instruction in the theoretical aspects of written music and the background of the different forms of music in today's society.

### ***Band Advanced [P]***

**Course ID# 55700**

Meets the UC/CSU (f) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: Advanced Band is an advanced ensemble open to students with some instrumental background who wish to be a part of a quality performing group. Performance opportunities may include Winter and Spring Concerts, District/Area Festivals, home football games, solo/ensembles and graduation. Skills learned include: tone production, rhythms, articulations, dynamics, tuning, balance, phrasing, breathing, posture, facility, accuracy and critical thinking.

**Marching Band**

**Course ID# 56200**

Grades: 9-12

Course Length: Year

Graduation: Satisfies fine arts requirement for high school graduation

Description: This course provides instruction in musical concepts along with technical instruction on a band instrument. Students will perform at various functions during and after school hours as designated by the instructor.

**Jazz Band [P]**

**Course ID# 56100**

Meets the UC/CSU (f) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: This course provides instruction in commercial styles of music, music theory, and career opportunities pertaining to instruments in an ensemble situation. Students will be involved in performances.

**Concert Band [P]**

**Course ID# 55900**

Meets the UC/CSU (f) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: The concert Band is an intermediate ensemble open to students with some instrumental background who wish to be a part of a quality performing group. Performance opportunities may include Winter and Spring Concerts, District/area festivals, home football games, solo/ensembles, feeder school concerts, and graduation.

**Band Symphonic [P]**

**Course ID# 56300**

Meets the UC/CSU (f) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirements for graduation

Description: The Symphonic Band is an advanced ensemble open to students with a strong instrumental background who wish to be part of a quality-performing group. This performance-based ensemble performs 6 – 10 mandatory performances and studies

standard band repertoire from all areas of music. Regular practice is a requirement of this course. Performance opportunities may include Winter and Spring Concerts, District/area festivals, home football games, solo/ensembles, feeder school concerts, and graduation.

**Ensemble**

**Course ID# 57200**

Grades: 9-12

Course Length: Year

Graduation: Satisfies high school fine arts requirements for graduation

Description: This percussion ensemble studies standard repertoire for percussion from all cultures and genres. Students must be enrolled in music performance class or studying music privately to enroll in this class. This group performs 4 – 8 mandatory performances and all students will also assist in the Marching Band.

**Jazz Ensemble**

**Course ID# 57700**

Meets the UC/CSU (f) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirements for graduation

Description: This ensemble performs standard repertoire for all genres of Jazz and improvisation. This group performs 6 – 10 mandatory performances. Instrumentation is limited to Trumpet, Trombone, Saxophone, Guitar, Bass, Piano and Drums with few exceptions made for ensemble needs.

**Orchestra [P]**

**Course ID# 58500**

Meets the UC/CSU (f) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirements for graduation

Description: The Orchestra consists exclusively of string instruments used in a standard symphony orchestra: violin, viola, cello and bass. Since other instrumentalists are used only on occasion, wind (woodwinds and brasses) and percussion players may not enroll, but rather, will be drawn from the Symphonic Band class when needed for orchestra literature.

**A Cappella [P]**

**Course ID# 55500**

Meets the UC/CSU (f) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts requirements for graduation

Description: A Cappella is open to students who enjoy singing and desire to participate in a quality-singing group. There will be a strong emphasis on vocal production, phrasing, and diction with special work devoted to extending the vocal range of the singers. Basic music theory will be included to aid in the improvement of sight-reading. Both performance and written tests will be included in the curriculum. There will be several performance opportunities for all: Fall, Winter, and Spring Concerts, Music Revues, district/area festivals, Baccalaureate, alumni, solo/ensemble, feeder school concerts and Spring Tour.

**Concert Choir [P]**Course ID# 56900

Meets UC/CSU (f) requirements

Grades: 9-12Course Length: YearGraduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: Concert choir is a one-year course open to all students interested in participating in a mixed choir (Soprano, Alto, Tenor, Bass). This course is designed to increase the vocal skill and performance levels of each student and to develop aesthetic and cultural values through critical listening. Students will sing a wide range of literature from a variety of time periods, continents, languages, cultures and styles. Students will perform medium to difficult high school choral literature for performances in concerts and festivals. Emphasis will be on portfolio preparation for advanced study and career development.

**Beginning Piano [P]**Course ID# 58750

Meets UC/CSU (f) requirements

Grades: 9-12Course Length: YearGraduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: A beginning music class that includes the study of piano techniques and the fundamentals of music, including an intensive study of music reading and notation. Students in this course give one or more recitals for which attendance is required.

**Basic/Advanced Piano [P]**Course ID# 58650

Meets UC/CSU (f) requirements

Grades: 9-12Course Length: YearGraduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: An intermediate course for continuing piano students. Students in this course give recitals in which participation is required.

**Advanced Piano [P]**Course ID# 58600

Meets the UC/CSU (f) requirement

Grades: 9-12Course Length: YearGraduation: Satisfies UC/CSU and high school fine arts requirements for graduation

Description: An intermediate advanced music class. The course includes intermediate, advanced applications on the piano, the study of the fundamentals of music, and the study of music styles, form and history. There will be intensive study of music reading and notation. Students in this course give recitals in which participation is required.

**Guitar Beginning [P]**Course ID# 57500

Meets the UC/CSU (f) requirement

Grades: 9-12Course Length: YearGraduation: Satisfies UC/CSU and high school fine arts requirement for graduation.

Description: Guitar Beginning is a course open to students 9-12. Students will learn basic comprehensive skills and applications that relate to the overall concepts of guitar technique and performance. Students will develop aesthetic and cultural values thru listening to various genres of guitar music. Students will address criteria for critically judging the quality of performances and compositions that derive from social and historical influence. Students will learn to strum and pick a wide range of music from a variety of American genres, i.e. Jazz, Folk, Rock, Pop. From the study of these various styles, students will attain enhanced awareness of the history and events surrounding the development of guitar literature (20th Century). Work outside of class involves project preparation, written assignments, and exploration of school-to career possibilities.

**Theatre 1 [P]**Course ID# 62100

Meets UC/CSU (f) requirements

Grades: 9-12Course Length: YearGraduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: Theatre 1 provides an introduction to theatre as a discipline and art form. Through theatre games and improvisation exercises, students will develop confidence, trust, and voice and movement skills. As they give and receive criticism on performances in and outside of class, students will apply evaluation criteria and appreciate excellence in performance. By studying theatre as an expression of both history and culture, students will explore the way in which theatre affects and is affected by its societal context.

**Theatre 2 [P]**Course ID# 62200

Meets UC/CSU (f) requirements

Grades: 10-12Course Length: YearGraduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: Theatre 2 is designed for the intermediate student who wants to build upon the skills learned in Theatre 1. Through play analysis, scene work, and one-act play preparation and performance, students will build believable characters, apply basic technical theatre skills, develop directing skills, and work effectively in an ensemble. Students will develop audition material suitable for professional use. Students will trace the historical development of theatre through research, performance, and attendance of theatrical productions.

**Theatre Advanced [P]**Course ID# 62300

Meets UC/CSU (f) requirements

Grades: 10-12Course Length: YearGraduation: Satisfies UC/CSU and high school fine arts requirement for graduation

Description: This course is designed for those students who want to continue the study of theatre and acting begun in earlier courses. The course covers all areas of the theatre with the emphasis on acting techniques and performance. Students will perform monologues, scenes, mimes, plays, etc. Students may participate in full scale Broadway productions.

**Technical Theatre**

Course ID# 62000

Grades: 9-12

Course Length: Year

Graduation: Satisfies fine arts or elective requirement for graduation

Description: This course covers design and construction of stage scenery and lighting. Students will learn to operate all stage equipment and will gain experience in the use of design and color techniques. Students will work as the technical staff for all productions. A focus on acquiring skills in all areas of technical theater will be emphasized.

**Stagecraft**

Course ID# 61900

Grades: 9-12

Course Length: Year

Graduation: Satisfies fine arts or elective requirement for high school graduation

Description: This course consists of a basic study of set construction, stage lighting, sound, and theatre management. The students will prepare the technical aspects of school productions and events in order to apply their studies to a realistic theater situation.

**Beginning Dance**

Course ID# 54300

Grades: 10-12

Course Length: Year

Graduation: Satisfies physical education or elective requirement for high school graduation

Description: The student with little or no dance experience will be introduced to basic jazz, ballet, and modern dance techniques. Warm-up exercises focus on alignment, strength, and flexibility; center combinations and exercises across the floor and development of dance vocabulary. Ethnic dance forms from a variety of cultures, will also be explored. Class improvisations and assignments will introduce such concepts as qualities of movement, shapes, levels, dynamics, use of space, and choreographic forms. The class will culminate with a final choreographed project, performed in an informal concert. One written project will be required each semester.

**Jazz Dance I [P]**

Course ID# 54800

Meets the UC/CSU (f) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies either a second year of physical education (grades 10-12) or fine arts requirement for high school graduation and satisfies UC/CSU fine arts requirement for graduation

Description: This course is for students with little or no jazz dance training. Students will study various jazz styles, techniques, and characteristics of jazz dance. The fundamentals of jazz dance will be covered along with the history and development of jazz dance in America and its influence on other styles of dance. Students will write one research paper on jazz dance and see one local performance. Videos and films will supplement required readings.

**Jazz Dance II [P]**

Course ID# 54900

Meets the UC/CSU (f) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school fine arts or physical education requirement for graduation

Description: This course is for students of intermediate ability. Students must be able to verbalize and demonstrate movement based on jazz techniques. An understanding of dance terminology and vocabulary is also essential. The course will emphasize intense study of jazz styles, characteristics, and expanding techniques. Students will develop their artistic abilities through choreography and/or participation in in-class performances. Students will view and critique at least one local performance. Videos and films will augment required readings distributed by the teacher. Participation in performances is required.

**Dance Advanced**

Course ID# 54400

Grades: 10-12

Course Length: Year

Graduation: Satisfies fine arts or elective high school requirement for graduation

Description: Extenuation of techniques learned in previous dance courses. More emphasis is placed on performance.

**Dance Production [P]**

Course ID# 54600

Meets the UC (f) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU fine arts or elective credit for graduation and either fine arts, P.E., or elective requirement for high school graduation.

Description: For students of intermediate and advanced technical ability with emphasis on choreography, development of stage presence and performance. Successful completion requires students to attend all rehearsals, to participate in outside work, i.e. dance workshops, seminars, master classes, and attend a minimum of three outside performances and write a critique based on designated criteria, to read all resource materials, to be able to demonstrate and verbalize movement based on modern jazz and ballet techniques, and to develop critical listening and viewing skills. All student work will be video recorded. Students are responsible for designing and providing costumes for their performances

**WORLD LANGUAGES**

The ability to speak a foreign language is becoming increasingly important in our interdependent world. Students entering a foreign language program are encouraged to continue it through the four-year sequence. Courses out of the normal sequence do not count for Cal State or University of California earned credit.



**French 1[P], 2[P], 3[P]**

Course ID# 42000, Course ID# 42200, Course ID# 42300

Meets the UC/CSU (e) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

Description: Students will develop an understanding and appreciation of the cultural diversity of the French-speaking world. Students will develop proficiency in the four modes of communication: listening, reading, writing, and speaking. Students will comprehend and acquire knowledge through authentic written texts and aural materials, e.g., videos, music, and internet resources, at increasing levels of difficulty and will learn to express themselves in oral and written French. Materials and expected proficiency in the language are determined by the level of the class. Advancement to the next course requires a mark of 'C' or better.

**French 4 [H]**

Course ID# 42400

Meets the UC/CSU (e) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

Description: Students will develop an understanding and appreciation of the literary and cultural heritage of the French-speaking world. Students will advance their proficiency in the four modes of communications: listening, reading, writing, and speaking. Authentic reading materials will include poetry, drama, short stories and novels by important French and Francophone authors. Listening comprehension skills will be developed through the inclusion of French videos, music, and various internet resources. Students will demonstrate their proficiency through advanced writing, discussion, and oral presentations. French 4 meets the University of California honors requirements.

**French Language [AP]**

Course ID# 42500

Meets the UC/CSU (e) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

Description: Students will study advance language structures, read advanced literature and non-fiction texts, participate in analytic discussions, improve their ability to comprehend native French speakers, and write well-developed, cohesive paragraphs and essays. Class is conducted entirely in French. The reading materials include poetry, drama, short stories and novels by important French and Francophone authors. Students will complete the College Board- approved course of study that includes preparation for the AP exam in the four modes of communication: reading, writing, listening and speaking. Students completing this course are encouraged to take the Advanced Placement French Language Test and will earn transferable college credit if passed at a "3" or higher.

**French Literature [AP]**

Course ID# 42600

Meets the UC/CSU (e) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

Description: Students will gain a proficiency in language skills that enables them to read and comprehend representative works of French literature and express critical opinions in correct oral and written French. Students will acquire the basic concepts and terminology of textual analysis. Class is conducted entirely in French. Students will complete a College Board-approved course of study that is designed to introduce students who have advanced language skills to the formal study of a representative body of literary texts. Students completing this course are encouraged to take the Advanced Placement French Literature Test and will earn transferable college credit if passed at a "3" or higher.

**Spanish 1[P], 2[P], 3[P]**

Course ID# 45300, Course ID# 45500, Course ID# 45600

Meets the UC/CSU (e) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

Description: Students will develop an understanding and appreciation of the cultural diversity of the Spanish-speaking world. Students will develop proficiency in the four modes of communication: listening, reading, writing, and speaking. Students will comprehend and acquire knowledge through authentic written texts and aural materials, e.g., videos, music, and internet resources, at increasing levels of difficulty and will learn to express themselves in oral and written Spanish. Materials and expected proficiency in the language are determined by the level of the class. Advancement to the next course requires a mark of 'C' or better.

**Spanish 4 [H]**

Course ID# 45700

Meets the UC/CSU (e) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

Description: Students will develop an understanding and appreciation of the literary and cultural heritage of the Spanish-speaking world. Students will advance their proficiency in the four modes of communications: listening, reading, writing, and speaking. Authentic reading materials will include poetry, drama, short stories and novels by important Spanish and Latin American authors. Listening comprehension skills will be developed through the inclusion of Spanish videos, music, and various internet resources. Students will demonstrate their proficiency through advanced writing, discussion, and oral presentations. Spanish 4 meets the University of California honors requirements.

**Spanish Language [AP]**

Course ID# 45800

Meets the UC/CSU (e) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

**Description:** Students will study advance language structures, read advanced literature and non-fiction texts, participate in analytic discussions, improve their ability to comprehend native Spanish speakers, and write well-developed, cohesive paragraphs and essays. Class is conducted entirely in Spanish. The reading materials include poetry, drama, short stories and novels by important Spanish and Latin American authors. Students will complete the College Board-approved course of study that includes preparation for the AP exam in the four modes of communication: reading, writing, listening and speaking. Students completing this course are encouraged to take the Advanced Placement Spanish Language Test and will earn transferable college credit if passed at a "3" or higher.

### ***Spanish Literature [AP]***

Course ID# 45900

Meets the UC/CSU (e) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

Description: Students will gain a proficiency in language skills that enables them to read and comprehend representative works of Spanish literature and express critical opinions in correct oral and written Spanish. Students will acquire the basic concepts and terminology of textual analysis. Class is conducted entirely in Spanish. Students will complete a College Board-approved course of study that is designed to introduce students who have advanced language skills to the formal study of a representative body of literary texts. Students completing this course are encouraged to take the Advanced Placement Spanish Literature Test and will earn transferable college credit if passed at a "3" or higher.

### ***German 1[P], 2 [P], 3 [P]***

Course ID# 43000, Course ID# 43100, Course ID# 43200

Meets the UC/CSU (e) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

Description: Students will develop an understanding and appreciation of the cultural diversity of the German-speaking world. Students will develop proficiency in the four modes of communication: listening, reading, writing, and speaking. Students will comprehend and acquire knowledge through authentic written texts and aural materials, e.g., videos, music, and internet resources, at increasing levels of difficulty and will learn to express themselves in oral and written German. Materials and expected proficiency in the language are determined by the level of the class. Advancement to the next course requires a mark of 'C' or better.

### ***German 4 [H]***

Course ID# 43400

Meets the UC/CSU (e) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

Description: Students will develop an understanding and appreciation of the literary and cultural heritage of the German-speaking world. Students will advance their proficiency in the

four modes of communications: listening, reading, writing, and speaking. Authentic reading materials will include poetry, drama, short stories and novels by important German authors. Listening comprehension skills will be developed through the inclusion of German videos, music, and various internet resources. Students will demonstrate their proficiency through advanced writing, discussion, and oral presentations. German 4 meets the University of California honors requirements.

### ***Japanese I [P], 2 [P], 3 [P]***

Course ID# 44100, Course ID# 44150, Course ID# 44200

Meets the UC/CSU (e) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

Description: Students will develop an understanding and appreciation of the cultural diversity of the Japanese-speaking world. Students will develop proficiency in the four modes of communication: listening, reading, writing, and speaking. Students will comprehend and acquire knowledge through authentic written texts and aural materials, e.g., videos, music, and internet resources, at increasing levels of difficulty and will learn to express themselves in oral and written Japanese. Materials and expected proficiency in the language are determined by the level of the class. Advancement to the next course requires a mark of 'C' or better.

### ***Japanese 4 [H]***

Course ID# 44250

Meets the UC/CSU (e) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

Description: Students will develop an understanding and appreciation of the literary and cultural heritage of the Japanese-speaking world. Students will advance their proficiency in the four modes of communications: listening, reading, writing, and speaking. Authentic reading materials will include poetry, drama, short stories and novels by important Japanese authors. Listening comprehension skills will be developed through the inclusion of Japanese videos, music, and various internet resources. Students will demonstrate their proficiency through advanced writing, discussion, and oral presentations. Japanese 4 meets the University of California honors requirements.

### ***Japanese [AP] (Pending UC Submission and Acceptance)***

Course ID# pending

Meets the UC/CSU (e) requirement {Pending}

Grades: 11-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation {Pending}

Description:

### ***Latin 1 [P], 2 [P], 3 [P]***

Course ID# 44700, Course ID# 44800, Course ID# 44900

Meets the UC/CSU (e) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school elective for graduation.

**Description:** Students will develop an understanding and appreciation of the cultural diversity of the Greco-Roman World. Latin provides a useful base for learning how many European languages work. The important goals of classical language study are the development of reading skills in the target language, the close study of works of ancient literature, and the creation of a deep understanding of the target culture. Advancement to the next course requires a mark of 'C' or better.

**American Sign Language I [P], II [P]**

Course ID# 41000, Course ID# 41200

Meets the UC/CSU (e) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies foreign language requirement for both UC/CSU and high school graduation

Description: Students will learn the basic receptive and expressive structure of the language and will develop an in-depth understanding of the language. The primary objective is the ability to converse in the language as well as learn about and understand the culture of the hearing impaired.



**MISCELLANEOUS ELECTIVES**

**Advanced Film Studies [P]**

Course ID# 22650

Meets the UC/CSU (g) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school elective requirement for graduation.

Description: Advanced Film Studies is an English elective course that uses the study of films, filmmaking, and film criticism as its content and places strong emphasis on college-preparatory reading and writing. Students examine various narrative and communication modalities. Through viewing, reading about, analyzing, and writing about excerpts of important films, students learn to utilize effective note taking techniques, advanced research techniques, and critical reading strategies. They write a range of analytical, expository, and reflective essays about film as well as at least one formal research paper. They compare and contrast novels and stories with film adaptations.

**AVID**

Course ID# 90370

Grades: 9-12

Course Length: Year

Graduation: Satisfies elective requirement

Description: AVID is offered as an elective course that, like any other regular class, meets five hours per week. Students receive two hours of instruction per week in college entry level skills, two hours per week in tutor led study groups, and one hour per week in motivational activities and academic survival skills.

**AVID Senior Seminar [P]**

Course ID# 36350

Meets the UC/CSU (g) requirement

Grades: 12

Course Length: Year

Graduation: Satisfies UC/CSU and high school elective requirement for high school graduation

Description: During students' senior year, they may take honors

courses or other elective courses such as newspaper or yearbook staff, or Associated Student Body classes for four hours per week and their AVID class one hour per week. The AVID elective may also be offered on an Independent Study option or as the University of California "G" requirement.

**AVID Tutor**

Course ID# 71000

Grades: 12

Course Length: Year

Graduation: Satisfies elective requirement

Description: AVID tutor is a one year elective course for students wishing to be tutors in the AVID elective program. Students will tutor 5-7 AVID students twice a week during the tutorial portion of the AVID elective class, and assist the teacher in providing academic and organizational skills to students. The tutors are expected to be able to help in at least three Honors or Advanced Placement academic subjects in which they themselves have been successful. These would include, but are not limited to: World Languages, Language Arts, Mathematics, Sciences, and Social Sciences. Tutors will receive instruction and training using the inquiry method that encourages higher level thinking by students.

**Developmental Psychology of Children (ROP) [P]**

Course ID# 2000R

Meets the UC/CSU (g) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school elective requirement for graduation.

Description: This course is a study of the developmental stages of children from conception through adolescence. It offers both a theoretical and applied academic foundation to the components of psychology, including cognitive development, biosocial development and psychosocial development. Students study and write about the developmental theories of major psychologists. To gain a deeper understanding of the theoretical content, students have an opportunity for research, clinical observation, and application in a preschool or elementary school setting. The intent is to integrate theory, research and practice. This course is designed to prepare students with the academic foundation needed to pursue postsecondary study in psychology, human development, or education.

**Driver's Education**

Course ID# 90150

Grades: 11-12

Course Length: Semester

Graduation: Satisfies elective credit

Description: Driver Education emphasizes good decision making and experience as critical parts of the driving task. In addition, this class will cover the basic rules of the road, the effect alcohol/drugs have on driving plus motorcycle, bicycle and pedestrian safety. This one semester class is required for graduation and is also a requirement for a provisional driver's license.

**Foods and Nutrition I**

Course ID# 32800

Grades: 9-12

Course Length: Year

Graduation: Satisfies WCCUSD elective credit for graduation from

high school

Description: A class designed for students who are interested in entering a culinary arts program after high school. Students enrolled in Beginning Culinary Arts learn basic sanitation, nutrition, vocabulary, ingredient identification, culinary math and how to read recipes. Students will learn to create and present dishes from around the world.

***Independent Study***

Course ID# 90200

Grades: 9-12

Course Length: Variable

***Intro to Business Economics (ROP) [P]***

Course ID# 2315R

Meets the UC/CSU (g) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school elective requirement for graduation.

Description: This ROP supported class is an overview of the economic principals of free enterprise in a democratic society. The focus of the course is on how individuals and societies make choices among alternative uses of scarce resources and how business reacts and interacts in this decision process. Major topics include fundamental economic concepts, microeconomics, macroeconomics, global economics and international business, as well as basic business management and entrepre-neurial concepts. Through the study of economic topics, students will develop critical thinking skills which integrate language arts and mathematical skills.

***Journalism 2 (ROP) [P]***

Course ID# 3685R

Meets the UC/CSU (g) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school elective requirements for graduation

Description: This ROP supported course allows students to continue to develop and refine skills learned in Journalism 1 as well as produce the school newspaper. In addition, Journalism 2 students are eligible to hold editorial positions on the student newspaper.

***Laboratory Assistant***

Course ID# 68100

Grades: 10-12

Course Length: Year

Graduation: Satisfies elective requirement for high school graduation

Description: Assists in setting up labs, organizing storeroom and other duties as assigned by the teacher.

***Library Assistant***

Course ID# 90250

Grades: 9-12

Course Length: Year

Graduation: Satisfies elective requirement for high school graduation

Description: Assist librarian and textbook clerk in issuing and collecting library books and textbooks. Duties include writing overdue book slips, typing book cards, shelving books, mending

books, maintaining an orderly library, and other tasks as assigned by the librarian. Some students will be trained to use word processing and database management programs on computers. Any student interested in this class must get prior approval of the librarian before indicating Library Assistant as an elective.

***Mathematics, Engineering, Science Achievement (MESA) (Pending UC Submission and Acceptance)***

Course ID# 50700

Meets the UC/CSU (g) requirement (Pending UC Submission and Acceptance)

Grades: 10-12

Course Length: Year

Graduation: Satisfies graduation requirement for elective credit

Description: This course is offered as an interdisciplinary subject with a focus on mathematics and science content. Students will be exposed to other California Content Standards including English-Language Arts, Technology, and Art. Students will use problem and project based learning models to study engineering, physics, and mathematical concepts. They will use these concepts and apply them to the design and building of hands-on projects such as balsawood bridges, balsawood gliders, and mousetrap cars. The course will cover major aspects of engineering, including civil, mechanical, aeronautical, chemical, and automotive. Students will also focus on the applied aspects of physics, which include forces, motion, density, and technology. The mathematical concepts studied in this course include several aspects of algebra and geometry. The course will also expose the students to potential career paths, college opportunities/advising, public speaking, and technology. Furthermore, special emphasis will be placed on laboratory investigation, hands-on projects, and data collection.

***Office Experience***

Course ID# 90300

Grades: 9-12

Course Length: Year

Graduation: Satisfies graduation requirement for elective credit

Description: Opportunities for students to help in the various school offices. Students should be able to type. Good attendance is essential.

***Service Learning***

Course ID# 77000

Grades: 9-12

Course Length: Satisfies graduation requirement

Graduation: Students who complete the approved project will satisfy the Service Learning graduation requirement.

Description: Students are required to complete at least one Service Learning Project in order to graduate. In order to fulfill the WCCUSD graduation requirement, students will be given an opportunity to complete a service-learning experience integrated into the curriculum of Government or Economics course in their senior year. The graduation requirement can also be met at other times in grades 9-11 and in other academic classes. Service Learning can occur in a variety of contexts. Many successful projects occur on the school campus. Recycling campaigns, cross-age tutoring, campus beautification, community gardens, research, analysis and reporting on a variety of current topics, safety and health related projects are examples of some excellent Service Learning projects that can occur on school sites. The following five elements must be in

place in order for it to count as a Service Learning Experience: 1) Meets the needs of a community, and has an identified partner, 2) Integrates into and enhances the rigorous academic curriculum, 3) Is aligned with state standards, 4) Fosters civic responsibility, and 5) Provides structured time for student reflection.

**Urban Ecology**

Course ID# 69700

Grades: 10-12

Course Length: Year

Graduation: Satisfies elective requirement for graduation from high school

Description: It integrates biophysical and socio-economic forces (e.g., biology, economics, public policy) to understand, predict, and manage the emergent phenomena we call cities. This course presents the state of our knowledge of Urban Ecology with lectures, readings, discussions, and experiments. Within this course emphasis will also be placed on Horticulture, which is the science and management behind the cultivation, processing and sale of fruits, nuts, vegetables, ornamental plants and flowers. This introductory course will provide students with the basic foundation knowledge and skills needed to pursue a career in Horticulture. Students will gain an understanding of plant anatomy and physiology and will be able to directly relate these topics to management techniques and decisions. All aspects of plant propagation, growth, nutrient and environmental needs will also be addressed through practical lab experiences and field trips. Emphasis will be given to job opportunities as well as development of technical skills and procedures used by professionals in the greenhouse/nursery management, floriculture and landscape design fields.

**Teacher Aide**

Course ID# 90350

Grades: 9-12

Course Length: Year

Graduation: Satisfies graduation requirement for elective credit

Description: Student provide help for teachers: typing stencils, keeping records, assisting students in classes. Good attendance and passing grades are required.

equations, as well as connect those solutions to their corresponding graphs. Students will know that functions have multiple representations: a set of points, a graph, an equation, and a situation. The course also includes exponents, polynomial arithmetic, rational expressions and ratio and proportion. This course is intended for students with limited math and English proficiency. This is the first course in a series required by the UC/CSU admissions' system.

**Geometry SL [P]**

Course ID# 15270

Meets the UC/CSU (c) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school math requirement for graduation

Description: This course focuses on problem solving within the setting of Euclidean and coordinate geometry. Important skills and concepts include: angle relationships within plane figures and those of lines cut by a transversal; distance, area, surface area and volume; triangle similarity and proportion; similarity and congruence of polygons; and transformations. Students will learn the subtleties of the Pythagorean Theorem through its proof and applications. They will learn and apply right triangle trigonometry. Students will develop their ability to construct and articulate logical, convincing arguments that includes a facility with formal proof and deductive reasoning, and recognizing the patterns of inductive reasoning. This course is intended for limited English learners

**Algebra 2 SL [P]**

Course ID# 15190

Meets the UC/CSU (c) requirement

Grades: 11-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school math requirement for graduation

Description: This is a course that completes all topics of second-year Algebra: linear functions, systems of linear equations and inequalities, quadratic functions and complex numbers, exponential and logarithmic functions, rational and irrational algebraic functions, quadratic relations, higher degree functions and polynomials, sequences and series, introduction to probability and statistic. The course includes mathematical modeling of real-world problems. Appropriate technology: graphing calculators, and computer software, is used to further explore and deepen mathematical understanding of concepts presented by the course. This course is intended for English learners.

**World History SL [P]**

Course ID# 17850

Meets the UC/CSU (a) requirement

Grades: 9-10

Course Length: Year

Graduation: Satisfies UC/CSU and high school history requirement for graduation

Description: Intended for students with a limited English proficiency. This class serves as an introduction to the social sciences with area studies of Europe, Asia, Latin America and Africa. This course is intended for English learners.

**U.S. History SL [P]**

**ENGLISH LANGUAGE LEARNERS**

**SPECIALLY DESIGNED  
ACADEMIC INSTRUCTION IN  
ENGLISH (SDAIE) COURSES**



**Algebra 1 SL [P]**

Course ID# 15180

Meets UC/CSU (c) requirement

Grades: 9-12

Course Length: Year

Graduation: Satisfies UC/CSU and high school math requirement for graduation

Description: This is a first year algebra course in which students will learn how to solve problems with the first semester focused on linear equations and constant rates of change followed by problems that involve quadratic functions and systems of linear equations. They will use reasoning skills, their knowledge of properties of numbers, inverse operations, graphing and other algebraic techniques to solve linear equations and quadratic

**Course ID# 17550**

Meets the UC/CSU (a) requirement

Grades: 11-12Course Length: YearGraduation: Satisfies UC/CSU and high school history requirement for graduationDescription: Intended for students with a limited background in US History and limited English proficiency. The course begins with early American history and is limited to the most important historical events and ideas. A greater emphasis is placed on the period of history since the Civil War. This course is intended for English Learners.**American Government SL [P]**Course ID# 17270

Meets the UC/CSU (a) requirement paired with Economics

Grades: 12Course Length: SemesterGraduation: Satisfies UC/CSU and high school requirement for graduationDescription: The theory and structure of the American political and legal systems; including the study of the executive, legislative, and judicial branches, the American political process, and state, country, local governments. This course is intended for non-English or limited English speakers.**Economics SL [P]**Course ID# 17370

Meets the UC/CSU (g) requirement paired with American Government

Grades: 12Course Length: SemesterGraduation: Satisfies both WCCUSD and UC/CSU graduation requirementsDescription: The theory and structure of reciprocal economic systems as influenced by American domestic and foreign policy decisions as well as political, legal, and socioeconomic issues. This course is intended for non-English or limited English speakers.**Biology SL [P]**Course ID# 16470

Meets the UC/CSU (d) requirement

Grades: 9-12Course Length: YearGraduation: Satisfies Life Science lab requirement for UC/CSU and high school life science requirement for graduationDescription: The study of life from the molecular level, cellular level to the whole organism including the study of interactions and interrelationships of living things and their environment. This course is designed to equip the student with independent study skills and basic background to compete successfully in higher lab science courses in high school. This course is intended for English learners.**Chemistry SL [P]**Course ID# 16550

Meets the UC/CSU (d) requirement

Grades: 10 -12Course Length: YearGraduation: Satisfies Physical Science lab requirement for UC/CSU and high school physical science requirement for graduationDescription: This course introduces students to the study of the structure and properties of matter and the changes it undergoes. It emphasizes the development of chemical principles and theories on the basis of experimental data and includes many laboratory experiments and demonstrations. This course is intended for English learners.**BILINGUAL SPANISH SPEAKER COURSES  
(RICHMOND HIGH SCHOOL ONLY)****Algebra I BL [P]**Course ID# 15000

Meets the UC/CSU (c) requirement

Grades: 9-12Course Length: YearGraduation: Satisfies one year of the math requirement for both UC/CSU and high school graduationDescription: This is a first year algebra course in which students will learn how to solve problems with the first semester focused on linear equations and constant rates of change followed by problems that involve quadratic functions and systems of linear equations. They will use reasoning skills, their knowledge of properties of numbers, inverse operations, graphing and other algebraic techniques to solve linear equations and quadratic equations, as well as connect those solutions to their corresponding graphs. Students will know that functions have multiple representations: a set of points, a graph, an equation, and a situation. The course also includes exponents, polynomial arithmetic, rational expressions and ratio and proportion. This course is for Spanish speakers.**Geometry BL [P]**Course ID # 15230

Meets the UC/CSU (c) requirement

Grades: 9-10Course Length: YearGraduation: Satisfies one year of math requirement for UC/CSU and high school graduation.Description: This course focuses on problem solving within the setting of Euclidean and coordinate geometry. Important skills and concepts include: angle relationships within plane figures and those of lines cut by a transversal; distance, area, surface area and volume; triangle similarity and proportion; similarity and congruence of polygons; and transformations. Students will learn the subtleties of the Pythagorean Theorem through its proof and applications. They will learn and apply right triangle trigonometry. Students will develop their ability to construct and articulate logical, convincing arguments that includes a facility with formal proof and deductive reasoning, and recognizing the patterns of inductive reasoning. This course is for Spanish speakers.**U.S. History BL [P]**Course ID# 17500

Meets the UC/CSU (a) requirement

Grades: 11Course Length: YearGraduation: Satisfies the U.S. History requirement for UC/CSU and U.S. History requirement for graduationDescription: An overview of American history with emphasis on significant people, groups, institutions, events, and places from the post-Civil War period to the present, and follows the

California State Framework for Social Science. The course is taught in Spanish for Spanish speakers.

### **World History BL [P]**

Course ID# 17800

Meets the UC/CSU (a) requirement

Grades: 10-12

Course Length: Year

Graduation: Satisfies the requirement for UC/CSU and World History requirement for graduation

Description: Survey of the history of the world, its civilizations, people, geography, and development, beginning with the Renaissance. Emphasis is on modern times and the origins and roots of current situations and problems. This class meets the California State Framework for Social Science. This course is intended for English learners.

### **American Government BL [P]**

Course ID# 10300

Meets the UC/CSU (a) requirement

Grades: 12

Course Length: Semester

Graduation: Satisfies the American Government requirement for UC/CSU and high school graduation

Description: A one semester course on the American system of government, beginning with theoretical foundations, comparative political systems and historical origins. Basic units will include the study of the executive, legislative and judicial branches, the American political process, civil rights, domestic issues, international problems, and state, county and local governments and follows the California State Framework for Social Science. This class is paired with Economics in the alternate semester. This course is intended for English learners.

### **Economics BL [P]**

Course ID# 17300

Meets the UC/CSU (g) requirement paired with American Government

Grades: 12

Course Length: Semester

Graduation: Satisfies UC/CSU and high school graduation requirements

Description: The theory and structure of reciprocal economic systems as influenced by American domestic and foreign policy decisions as well as political, legal, and socioeconomic issues. This course is intended for English learners.

## MIDDLE COLLEGE HIGH SCHOOL COURSES

### **Speech 120 (Public Speaking)**

Course ID# 120CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the English requirement for high school graduation

Description: This course provides students the opportunity to gain confidence in a variety of speaking formats, including informative, persuasive, impromptu and narrative presentations. Students will gain proficiency in listening to and evaluating public speeches. They will develop a personal style of speaking in



public. This course presents the principles of good oral communication, with attention given to research and delivery techniques and critical evaluation of public communication.

### **Math 190 (Analytic Geometry and Calculus)**

Course ID# 190CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the math requirement for high school graduation

Description: The course content will include elements of analytic geometry, functions of a single variable, limits, techniques of differentiation, integration and applications.

### **Math 191 (Analytic Geometry and Calculus)**

Course ID# 191CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the math requirement for high school graduation

Description: A continuation of the study begun in MATH 190, this course will cover elements of analytic geometry, differential and integral calculus, infinite series and their applications. Integration techniques, transcendental functions, and improper integrals will be included.

### **Math 290 (Analytic Geometry and Calculus)**

Course ID# 290CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the math requirement for high school graduation

Description: This course further develops differential and integral calculus, with emphasis on functions of several variables, vectors, partial derivatives, multiple integrals, vector integration and vector fields, line and surface integrals, Green's theorem, Stoke's theorem, and divergence theorem.

### **Math 292 (Introduction to Differential Equations)**

Course ID# 292CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the math requirement for high school graduation

Description: This course presents ordinary differential equations of first and second order, series solutions, linear differential equations, Laplace transforms and numerical solutions, as well as an introduction to Fourier series.

### **Biology 132 (Human Anatomy)**

Course ID# 132CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the life science requirement for high school graduation

Description: Human Anatomy is a course in the structure or morphology of the human body, covering basic cytology, histology and all major organs and organ systems. In addition, the two main integrative systems of the body, the nervous and endocrine systems are also covered, with a greater emphasis on neuroanatomy than on endocrinology. The course is taught both systemically and regionally, with developmental anatomy added when applicable. The muscles, bones, nerves and circulation of

the limbs and back are approached regionally so as to better integrate all structures for student comprehension and retention. Organs, organ systems and neuroanatomy are taught from a systemic perspective. Course material progresses from a cellular and tissue level to an organ and organ system level. As each region or organ system is completed, its relationship to other organs systems and the whole organism is stressed. Specific functions especially as they are related intimately to structure are also studied. For example, the presentation of the heart and of the Central Nervous System includes information on function.

### ***Biology 134 (Human Physiology)***

Course ID# 134CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the life science requirement for high school graduation

Description: Human Physiology is a course in the function of the human body that covers all major body systems and the two main integrative systems, the nervous and endocrine systems in detail. Course material progresses from a cellular and molecular level to an organism level, and regulation and integration of functions is emphasized. This is because several mechanisms within the body work in similar fashions and understanding them on a molecular level enables students to comprehend how several functions in different systems occur in the body. For example, study of binding characteristics and receptors can be applied to gated membrane transport channels, receptors for hormones, muscle contraction, action of calcium within cells, activation of second messenger systems and many others. Integration and interrelation of functions and some pathologies also are covered. Minimal anatomy is covered, mainly as it is needed to understand the function of the heart, the lungs and pleural membranes and the digestive system. Several clinical correlations are also given throughout the course.

### ***Biology 141 (Principles of Biology)***

Course ID# 141CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the life science requirement for high school graduation

Description: An introduction to evolution and natural selection, population genetics, plant development, form, and function, and ecological principles.

### ***Biology 148 (General Microbiology)***

Course ID# 148CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the life science requirement for high school graduation

Description: This course explores the structure and function of the prokaryotic cell, with emphasis on biochemical pathways, genetics, recombinant DNA technology, and physical and chemical methods of microbial control. Included is a survey of prokaryotes of ecological, medical, and industrial importance.

### ***Chemistry 120 (General College Chemistry)***

Course ID# 120CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the physical science

requirement for high school graduation

Description: This course is the first semester of general college chemistry, equivalent to CHEM 001A at the University of California, Berkeley. It covers chemical concepts including elements, atoms, molecules, chemical reactions, chemical calculations, gases and gas laws, thermo chemistry, quantum theory, chemical bonding, pure phases and solutions, and an introduction to acids, bases and chemical equilibrium.

### ***Chemistry 226 (Organic Chemistry)***

Course ID# 226CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the physical science requirement for high school graduation

Description: This first half of a one-year course (CHEM 226-227) covers structure and bonding, stereochemistry, common synthetic reactions and reaction mechanisms; alkanes, alkenes, alkynes; benzene and other aromatic compounds; and various common functional groups such as halides, alcohols, ethers, and selected carbonyl compounds. The organic laboratory includes characterization techniques, separations and syntheses, spectroscopy, and laboratory experiment involving reactions described in the lecture.

### ***Chemistry 227 (Organic Chemistry)***

Course ID# 227CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the physical science requirement for high school graduation

Description: This second half of a one-year course (CHEM 226-227) continues and expands concepts of structure and bonding and reactivity introduced in the first semester. Areas covered include aromatic compounds, selected concerted reactions, aldehydes and ketones, carboxylic acid derivatives, amines, phenols, organosulfur compounds, and organophosphates. Next come lipids, terpenoid compounds, carbohydrates, amino acids and proteins, and nucleic acids. Laboratory exercises include a variety of syntheses, reaction studies, and structural identifications using spectroscopic methods.

### ***Physics 130 (General Physics)***

Course ID# 130CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the physical science requirement for high school graduation

Description: For students majoring in engineering, physics and chemistry, this course presents a lecture and laboratory study of mechanics and properties of matter, statics and dynamics of translation and rotation, fluid mechanics, wave motion and sound.

### ***Physics 230 (General Physics)***

Course ID# 230CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the physical science requirement for high school graduation

Description: This course is a continuation of PHYS 130. The fundamentals of electricity and magnetism will be presented, including study of electric fields, potential, resistance, current

electricity, DC networks, magnetism, inductance, alternating current, electromagnetic waves and electronics.

**Physics 231 (General Physics)**

Course ID# 231CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the physical science requirement for high school graduation

Description: This course is a continuation of PHYS 230. This semester covers three largely independent topics in physics: Thermal physics, including temperature, basic heat flow and the laws of thermodynamics; Optics, including both geometric and physical optics; and 20th Century physics, which covers special relativity; introductory quantum mechanics, and fundamental nuclear physics.

**History 122 (History of African Americans in the US (Pre-Colonial -1865))**

Course ID# 122CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the social science requirement for high school graduation

Description: This course is a survey of Africans’ role in American history which covers pre-colonial to 1865. Students will gain a deeper understanding of the geographic migrations of African people to the United States. Students will analyze the development of African American economic, social, and political institutions, as well as the U.S. Constitution. The historical development and contributions of Africans and other ethnic groups including Native Americans, Latinos, Asians, and Europeans will also be examined.

**Humanities 113 (African American Humanities)**

Course ID# 113CC

Grades: 9-12

Course Length: Semester

Graduation: Satisfies one semester of the elective requirement for high school graduation

Description: This course presents an integrated and historical study of African American culture and African Americans’ influence upon American life. Emphasis will be upon philosophy, fine and applied arts, and ways by which they reflect the social, political, and economic realities of a culture.

<b>LEGEND</b>	
[AP]	Advanced Placement Course / Meets UC/CSU Requirements
BL	Bilingual Speaker Course
ELD	English Language Development Course
[H]	Honors Level Course / Meets UC/CSU Requirements
[P]	College Preparatory Course / Meets UC/CSU Requirements
ROP	Regional Occupational Program Course
SL	Sheltered English Course—also known as Specially-Designed Academic Instruction English (SDAIE)