

# **SERRANO HIGH SCHOOL**

**CATALOGUE OF COURSES 2010-2011**

# TABLE OF CONTENTS

## REQUIREMENTS

Graduation Requirements	Page 1
4 Year School Plan	Page 1
Weighted Grade Classes	Page 1
Houses and Career Pathways	Page 1

## ENGLISH/LANGUAGE ARTS

Linguistics I	Page 2
Linguistics II	Page 2
English I	Page 2
Advanced English I	Page 2
English II	Page 2
Advanced English II	Page 3
English III	Page 3
Advanced Placement Language and Composition	Page 3
General English D	Page 3
English IV	Page 3
English IV – Expository Reading and Writing	Page 4
Advanced Placement Literature and Composition	Page 4
English I-IV/English Language Development	Page 4
Children’s Literature	Page 4
Creative Writing	Page 5
Journalism/Yearbook	Page 5
Language Arts/Newspaper Writing and Production	Page 5
Bible as Literature	Page 5

## MATHEMATICS

Geometry	Page 5
Honors Geometry	Page 6
Algebra I	Page 6
Algebra I Plus	Page 6
Algebra II	Page 6
Honors Algebra II	Page 6
Discrete Mathematics	Page 6
Math Analysis/Pre-Calculus	Page 7
Advanced Placement Calculus	Page 7

## SCIENCE

Agricultural Earth Science	Page 8
Earth and Space Science Essentials	Page 8
Earth and Planetary Science	Page 8
Principles of Physics	Page 8
Geology	Page 8
CSU Geology 101	Page 9
CSU Geology 205	Page 9
CSU Geology 210	Page 9
Principles of Physics	Page 10
Advanced Placement Physics B	Page 10
Chemistry	Page 10
Honors Chemistry	Page 10
Biology Essentials	Page 11
Biology I	Page 11
Agricultural Biology	Page 11
Advanced Biology	Page 11
Advanced Placement Biology	Page 12
Agricultural Biology II	Page 12
Anatomy and Physiology	Page 12
Medical Pathway Anatomy and Physiology	Page 12
Marine Biology	Page 13
Advanced Placement Biology	Page 13

## **HISTORY/SOCIAL SCIENCE**

Physical and Cultural Geography	Page 13
Honors Physical and Cultural Geography	Page 13
World History	Page 14
Advanced Placement European History	Page 14
United States History	Page 14
Advanced Placement United States History	Page 14
American Government	Page 14
Advanced Placement Government	Page 15
Economics	Page 15
Honors Economics	Page 15
Advanced Placement Art History	Page 15
Introduction to Sociology	Page 15
Introduction to Psychology	Page 16
Advanced Placement Psychology	Page 16

## **PHYSICAL EDUCATION**

Core Physical Education	Page 16
Aerobics/Step Movement	Page 16
Basketball	Page 16
Field Sports	Page 17
Weight Conditioning	Page 17
Health	Page 17

## **WORLD LANGUAGES**

American Sign Language I	Page 17
American Sign Language II	Page 17
French III	Page 17
Spanish I	Page 18
Spanish II	Page 18
Honors Spanish II	Page 18
Spanish for Native Speakers	Page 18
Spanish III	Page 18
Honors Spanish III	Page 18
Advanced Placement Spanish IV	Page 19
Advanced Placement Spanish IV	Page 19

## **SPECIAL EDUCATION**

Specialized Academic Instruction (SAI)	Page 19
Study Skills	Page 19

## **ELECTIVES**

ASB Leadership	Page 20
Link Crew Leadership	Page 20
Peer Ambassadors	Page 21
Teacher Assistant	Page 21

## **VISUAL/PERFORMING ARTS**

Art I Foundations	Page 21
Art I – Three Dimensional Foundations	Page 21
Studio Art II – Design	Page 21
Studio Art II – Drawing and Painting	Page 21
Studio Art III	Page 22
Crescendo (Mixed Choir/Beginning Choir)	Page 22
Bedazzled (Women’s Show Choir)	Page 22
Vocal Master Class (Concert Choir/Solo Workshop)	Page 22
Vocal Point (Advanced Mixed Show Choir)	Page 22
Schitzophonics (Chamber Choir)	Page 23
Theatre Arts – Acting I – Monologues (Solo Scenes)	Page 23
Theatre Arts – Acting II – Scene Work	Page 23
Theatre Arts – Acting III – One-Act Plays	Page 23
Theatre Arts – Acting IV – Full-Length Productions	Page 23
Concert Band (Entry Level Band)	Page 23

Color Guard	Page 23
Symphonic Band (Intermediate Level Band)	Page 24
Jazz Band	Page 24
Wind Ensemble (Advanced Level Band)	Page 24

## **CAREER/TECHNICAL EDUCATION**

<b><i>Agriculture and Natural Resources</i></b>	
Agricultural Earth Science	Page 24
Agricultural Biology	Page 25
Agricultural Biology II	Page 25
Agricultural Mechanics A and B	Page 25
Veterinary Assistant	Page 25
<b><i>Arts, Media and Entertainment</i></b>	
3-D Digital Animation	Page 26
Digital Design	Page 26
Screen Printing	Page 26
Stagecraft Construction and Technology	Page 26
<b><i>Building Trades and Construction</i></b>	
Woodworking Occupations	Page 27
Furniture/Cabinet Manufacturing	Page 27
Electrical Repair Fundamentals	Page 27
<b><i>Engineering and Design</i></b>	
Introduction to Engineering Design (IED)	Page 28
<b><i>Education, Child Development, and Family Services</i></b>	
American Sign Language I	Page 28
American Sign Language II	Page 28
Child Development	Page 28
Family and Human Development	Page 28
Careers with Children/Advanced Careers with Children	Page 28
<b><i>Finance and Business</i></b>	
Marketing Principles	Page 29
Economics of Business Ownership	Page 29
Mind Your Own Business	Page 29
Accounting I	Page 30
Virtual Enterprise	Page 30
<b><i>Health Science and Medical Technology</i></b>	
Introduction to Health Careers	Page 30
Medical Terminology	Page 30
EKG Monitor Technician	Page 30
Medical Insurance Billing	Page 31
Personal Fitness Trainer	Page 31
Medical Terminology	Page 31
Emergency First Responder	Page 31
Medical Assistant – Front Office	Page 32
Medical Assistant – Back Office	Page 32
Sports Therapy and Fitness	Page 32
<b><i>Hospitality, Tourism and Recreation</i></b>	
Restaurant Occupations	Page 32
<b><i>Information Technology</i></b>	
Computer Applications I (formerly FACTs)	Page 32
Computer Applications II	Page 33
Web Page Design w/ HTML	Page 33
Web Page Design w/ Dreamweaver and Flash	Page 33
Introduction to Computer Science	Page 33
Computer Networking Technology	Page 33
Computer Programming	Page 34
Computer Maintenance and Repair	Page 34
<b><i>Public Services</i></b>	
Legal Office Assistant	Page 34
Emergency First Responder	Page 34
Fire Science Technology	Page 35
Wildland Firefighting	Page 35
Law Enforcement: Fundamentals	Page 35

### **MEDICAL CAREERS PATHWAY**

English II	Page 35
English III	Page 36
English IV	Page 36
United States History	Page 36
American Government	Page 36
Economics	Page 36
Biology I	Page 37
Anatomy and Physiology	Page 37
Medical Terminology	Page 37
Intro to Health Careers	Page 37
Emergency First Responder	Page 37
EKG Monitor Technician	Page 38
Medical Assistant – Front Office	Page 38
Medical Assistant – Back Office	Page 38
Medical Insurance Billing	Page 38
Personal Fitness Trainer	Page 38
Sports Therapy and Fitness	Page 39
Veterinary Assistant	Page 39

### **PARTNERSHIP ACADEMY**

Academy English II	Page 39
Academy English III	Page 39
Academy English IV	Page 40
Academy World History	Page 40
Academy United States History	Page 40
Academy American Government	Page 40
Academy Economics	Page 40
Academy Algebra I	Page 40
Academy Geometry	Page 41
Academy Web Page Design and Basic Computer Skills	Page 41
Academy Video and Graphic Design	Page 41
Academy Visual Graphic Art Design	Page 41

# GRADUATION REQUIREMENTS

## REQUIREMENTS FOR GRADUATION FROM SERRANO HIGH SCHOOL

Graduation requirements include these considerations:

1. Minimum number of credits to be earned.
2. Certain required courses to be taken and passed.
3. Passage of California High School Exit Exam.
4. Completion of Senior Project.

### CREDITS REQUIRED FOR GRADUATION

The District currently requires a student to successfully complete a minimum of 230 semester credits in grades 9-12 for high school graduation. Other requirements include the successful completion of an Algebra course, passage of the California High School Exit Exam, and completion of a Senior Project. A normal class load successfully carried through four years will earn 240 semester credits for a student. (Maximum credit per semester for passing one class is normally equal to five credits. Additional credits may be earned in some R.O.P. courses.)

### REQUIRED COURSES TO BE TAKEN AND PASSED FOR SERRANO GRADUATION:

ENGLISH	4 Years	(40 semester credits)	(pp. 2-5)
MATH (including Algebra I)	3 Years	(30 semester credits)	(pp. 5-7)
SCIENCE (1 year life, 1 year physical, 1 year either)	3 Years	(30 semester credits)	(pp. 7-13)
SOCIAL STUDIES	3 ½ Years	(35 semester credits)	(pp. 13-16)
PHYSICAL EDUCATION	2 ½ Years	(25 semester credits)	(pp. 16-17)
WORLD LANGUAGE OR FINE ARTS	1 Year	(10 semester credits)	(pp. 17-19)
COMPUTER REQUIREMENT	1 Semester	(5 semester credits)	(pg.32-33)
HEALTH	1 Semester	(5 semester credits)	(pg. 17)
ELECTIVES		(50 semester credits)	(pp. 20-35)

Total Credits: 230 semester credits

### 4 YEAR HIGH SCHOOL PLAN

<u>9<sup>TH</sup> GRADE</u>	<u>10<sup>TH</sup> GRADE</u>	<u>11<sup>TH</sup> GRADE</u>	<u>12<sup>TH</sup> GRADE</u>
English I	English II	English III	English IV
Math	Math	Math	American Gov't/Econ
Core Physical Ed.	Health/Physical Ed.	Physical Education	Elective
Geography/Computers	World History	United States History	Elective
Science	Science	Science	Elective
Elective	Elective	Elective	Elective

### WEIGHTED GRADE CLASSES

Serrano High School offers weighted grade classes in English/Language Arts, World Language, History/Social Science, Mathematics and Science. In high school, weighted grades are awarded in 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> Honors and Advanced Placement courses. Weighted grade points are as follows: A = 5 points; B = 4 points; C = 3 points; D = 1 point (no extra grade point); F = 0 points. Weighted grade classes in the course catalog are designated as follows: \**Weighted Grade Class*. Students in Advanced Placement courses may only receive a weighted grade if they take the Advanced Placement tests in the spring.

### HOUSE, CAREER PATHWAYS, PARTNERSHIP ACADEMY

Some ninth and tenth grade students are enrolled in houses, with at least three teachers in common who also share a common preparation period. In the 2010-2011 school year, sophomores, juniors and seniors will also have an opportunity to enroll in the Medical Careers Pathway (pp. 35-39) or Partnership Academy (pp.39-41). Additional information will be provided with registration materials in the spring of each year.

## ENGLISH/LANGUAGE ARTS

**COURSE TITLE:** LINGUISTICS I  
**Recommendation:** Students scoring Far Below Basic on state testing  
**Grade Level:** 9 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** Language! Level I, McDougal-Littell, 2002, plus literature texts selected in accordance with state curriculum expectations and guidelines

This course is designed to improve students reading and comprehension skills. Using the Language! program, students will follow detailed and comprehensive instructional lessons designed to raise skills to grade level. The integrated program includes reading, comprehension, writing, vocabulary, and grammar strands.

**COURSE TITLE:** LINGUISTICS II  
**Recommendation:** Students scoring Far Below Basic on state testing  
**Grade Level:** 10-11 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** Language! Level II & III, McDougal-Littell, 2002, plus literature texts selected in accordance with state curriculum expectations and guidelines

This course is designed to improve students reading and comprehension skills. Using the Language! Program, students will follow detailed and comprehensive instructional lessons designed to raise skills to grade level. The integrated program includes reading, comprehension, writing, vocabulary, and grammar strands. This course is specifically designed to help students pass the CAHSEE in English-Language Arts.

**COURSE TITLE:** ENGLISH I  
**Recommendation:** Students scoring Basic or above on state testing  
**Grade Level:** 9 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, plus literature texts selected in accordance with state curriculum expectations and guidelines

This is a college prep course which introduces students to literary analysis and the use of a variety of literary techniques. Students become familiar with the principles of grammar, the structure of writing, and vocabulary development.

**COURSE TITLE:** ADVANCED ENGLISH I  
**Recommendation:** 8<sup>th</sup> Grade Composition with a Grade of "B" or Better  
Proven desire and ability to work beyond the requirements of a college prep course  
**Grade Level:** 9 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, plus literature texts selected in accordance with state curriculum expectations and guidelines

### *\*Weighted Grade Class*

This honors course is the entry-level course to the Honors-Advanced Placement English program. It is designed to instruct students in the analysis of a variety of literary works through an in-depth study of characterization, plot, theme, setting, and other literary techniques. Students will improve their writing skills through a variety of structured writing experiences. Students will also broaden their knowledge and usage of advanced vocabulary and grammatical skills. In addition to required reading, students will be expected to read and analyze a minimum of two to four additional pieces of literature. Students will be prepared to enter Advanced English II at the end of this course.

**COURSE TITLE:** ENGLISH II  
**Recommendation:** Students scoring Basic or above on state testing  
**Grade Level:** 10 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, plus literature texts selected in accordance with state curriculum expectations and guidelines

This is a college prep course in which students will explore major literary forms by reading and analyzing essays, short stories, plays, novels, and poetry. This course will emphasize the writing process, will review

grammar usage, and present new grammatical elements as required by the California State Standards. A computer lab will be used regularly to help students strengthen computer and writing skills and to measure grammar levels to improve writing.

**COURSE TITLE:** ADVANCED ENGLISH II  
**Recommendation:** English I/Advanced English I with a Grade of "B" or Better. Proven desire and ability to work beyond the requirements of a college prep course  
**Grade Level:** 10 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, plus literature texts selected in accordance with state curriculum expectations and guidelines

*\*Weighted Grade Class*

This honors course is designed to continue preparation for the Advanced Placement English program and for the SAT at the junior and senior level. The course will focus on in-depth analysis of selected literary and persuasive works. Students will incorporate complex writing strategies through a variety of structured writing experiences. Students will continue to broaden their knowledge and usage of advanced vocabulary and grammatical skills. Critical thinking skills will be emphasized throughout the course. In addition to required reading, students will be expected to read and analyze a minimum of four to six additional pieces of literature. Students will be prepared to enter Advanced Placement Language and Composition at the end of this course.

**COURSE TITLE:** ENGLISH III  
**Recommendation:** Students scoring Basic or above on state testing  
**Grade Level:** 11 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, plus core literature texts selected in accordance with state curriculum expectations and guidelines

This course is based on major American authors, their styles, and the literary trends related to American history. Students will explore all genres while working to refine their own writing skills through examination of the works of professional writers, grammar and mechanics refinement, and structural practice. Students also focus on college/career related assignments designed to prepare them for life after high school.

**COURSE TITLE:** ADVANCED PLACEMENT LANGUAGE & COMPOSITION  
**Recommendation:** Advanced English I and II; Grade of "B" or Better  
**Grade Level:** 11 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, plus core literature texts selected in accordance with state curriculum expectations and guidelines listed; plus additional core literature texts designed for A.P. preparation with college reading and thematic levels

*\*Weighted Grade Class*

This is a college level course designed to prepare students for college writing and reading expectations. Techniques of research will be taught with familiarization of use of primary and secondary resource materials. Various writing styles, techniques of writing, and elements will be covered. Emphasis will also be placed on preparation for the national Advanced Placement Exam in Language and Composition. Students may only receive the weighted grade if they take the Advanced Placement test in the spring.

**COURSE TITLE:** GENERAL ENGLISH D  
**Recommendation:** Students scoring Below Basic on state testing  
**Grade Level:** Grade 12 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** Language of Literature, McDougal-Littell, 2002, plus literature texts selected in accordance with state curriculum expectations and guidelines

These courses are designed to remediate below grade-level skills in writing and reading comprehension, analysis, and interpretation. The focus is on preparing students for technical/trade school, junior college, the military, or the work place.

**COURSE TITLE:** ENGLISH IV  
**Recommendation:** Students scoring Basic or above on state testing

**Grade Level:** 12                      **Course Length:** One Year  
**University Prep Program:** Yes                      **A-G Requirement:** Yes                      **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, plus core literature texts selected in accordance with state curriculum expectations and guidelines

This course is designed to ensure full mastery of all California State Language Arts Standards while preparing students for college coursework and the rigors of the workplace. Students will study and learn to analyze fictional prose and poetry, and they will learn to argue, debate, and persuade using a wide variety of non-fiction readings. As the foundation of their writing skills, grammar skills will be fine-tuned as lessons will focus on the specific problems of 12<sup>th</sup> grade writers. Senior Project will be facilitated through this class.

**COURSE TITLE:**                      **ENGLISH IV – EXPOSITORY READING AND WRITING**

**Recommendation:** Students scoring Basic or above on state testing; English I-III or higher  
**Grade Level:** 12                      **Course Length:** One Year  
**University Prep Program:** Yes                      **A-G Requirement:** Yes                      **NCAA Approved:** Yes  
**Textbook:** No textbook; students use supplemental material provided by the instructor

This course is designed to prepare college-bound students for the demands of college curriculum. It is a rhetoric-based course that will develop advanced proficiency in expository, analytical, and argumentative reading and writing, using mostly nonfiction texts. Senior Project will be facilitated through this class.

**COURSE TITLE:**                      **ADVANCED PLACEMENT LITERATURE & COMPOSITION**

**Recommendation:** Advanced English I & II and Advanced Placement Language & Composition; Grade of “B” or Better  
**Grade Level:** 12                      **Course Length:** One Year  
**University Prep Program:** Yes                      **A-G Requirement:** Yes                      **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, plus core literature texts selected in accordance with state curriculum expectations and guidelines; plus additional core literature texts designed for A.P. preparation with college reading and thematic levels. Reading materials are chosen based on their use on past AP tests

*\*Weighted Grade Class*

This is a college-level course with a focus on strengthening writing and literary analysis skills. The curriculum is similar to the English IV course; however, the amount of reading and writing is increased considerably in an effort to prepare students for the national Advanced Placement test in Literature and Composition given in May. Reading materials consist of college level novels, poetry, and prose passage analysis. The midterm exam is a complete Advanced Placement exam. College admissions officers should be contacted to determine if credit will be given for this course as well as the Advanced Placement Language and Composition course taken in the 11<sup>th</sup> grade. Because this course is the second Advanced Placement course available in English, the weighted grade is not dependent on taking the Advanced Placement test in the spring, although passage of the test is the focus of this course. Senior Project will be facilitated through this class.

**COURSE TITLE:**                      **ENGLISH I-IV/ENGLISH LANGUAGE DEVELOPMENT**

**Recommendation:** Must be identified as an E.L.L. Student  
**Grade Level:** 9-12                      **Course Length:** One Year  
**University Prep Program:** No                      **A-G Requirement:** No                      **NCAA Approved:** No  
**Textbook:** High Point, Hampton-Brown, 1998, plus literature texts selected in accordance with state curriculum expectations and guidelines

This program is designed to offer English language development assistance to students who are not native English language speakers. Using the High Point program, students will follow detailed and comprehensive instructional lessons designed to raise skills to grade level. The integrated program includes reading, comprehension, writing, vocabulary, and grammar strands. Strategies include a focus on vocabulary building as well as reading and grammar skill development. Also support services are available through bilingual associates. This course is an elective course and does not qualify for English credit.

**COURSE TITLE:**                      **CHILDREN’S LITERATURE**

**Recommendation:** Related courses – Child Development, Careers with Children  
**Grade Level:** 9-12                      **Course Length:** Semester  
**University Prep Program:** Yes                      **A-G Requirement:** No                      **NCAA Approved:** No

This course will present an academic discussion of children’s literature designed to assist students in selecting and evaluating literature appropriate for a variety of ages, situations, and grade levels. Students will identify, read, and critique in writing various forms of children’s literature. Students will be exposed to alphabet books, picture books, fairy tales, nursery rhymes, rhyming books, and a variety of other books which appeal to primary-grade students. Students will also study the origins of children’s literature in the United States.

**COURSE TITLE:** CREATIVE WRITING  
**Recommendation:** Pass English Classes with a “C” or Better  
**Grade Level:** 9-12 **Course Length:** Semester **NCAA Approved:** No  
**University Prep Program:** Yes **A-G Requirement:** Yes (Meets University Elective Requirement Only)

Students will explore creativity and writing, using selected readings to illustrate ideas, mechanics, style and construction. Writing assignments will include short stories, poetry, observation reports, curiosity journals and exercises. Students will have the opportunity to write with the purpose of submitting their work for publication in professional fiction markets.

**COURSE TITLE:** JOURNALISM/YEARBOOK  
**Recommendation:** “B” Average in English; Teacher Approval  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** No **NCAA Approved:** No

This course produces the school yearbook, a 360 page, full-color book. Applications to enroll in this course are available in April. Students will learn computer graphic design, journalistic writing skills, photographic and interviewing skills, and time management. Organization skills, good attendance, a hard-work ethic, and strong writing skills are a must.

**COURSE TITLE:** LANGUAGE ARTS/NEWSPAPER WRITING AND PRODUCTION  
**Recommendation:** “B” Average in English; Teacher Approval  
**Grade Level:** 10-12 **Course Length:** One Year **NCAA Approved:** No  
**University Prep Program:** Yes **A-G Requirement:** Yes (Meets University Elective Requirement Only)

This course produces the school newspaper. Students learn every aspect of newspaper production: interviewing, reporting, writing techniques, photography, layout, etc. A love of writing is required.

**COURSE TITLE:** BIBLE AS LITERATURE  
**Recommendation:** None  
**Grade Level:** 11-12 **Course Length:** One Year **NCAA Approved:** Yes  
**University Prep Program:** Yes **A-G Requirement:** Yes (Meets University Elective Requirement Only)

**Textbook:** The Bible and Its Influence, BLP Publishing, 2006  
 Students will interpret Biblical allusions in literature by developing a firm foundation in Old and New Testament stories. Students will read the King James Version, which is recognized as one of the monuments of modern English literature, and do historical and comparative studies of the text. Students will engage in a variety of standards based academic and creative writing tasks, which connect biblical literature to the masterpieces and traditions of both American and British literature. Students will use writing process activities in a variety of genres: persuasive, expository, narrative, reflective and literary analysis. Students engage in a close reading and exploration of themes found in biblical literature through a balanced integrated program of non-fiction, literature and language study. Students read and analyze historically and/or culturally significant biblical stories tracing the development of American and British masterpieces in their light.

## MATHEMATICS

**COURSE TITLE:** GEOMETRY  
**Recommendation:** None  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** California Geometry, Holt, 2008

This course includes the study of points, lines, planes, and figures. It will use information from Algebra I state standards to solve and explore geometric applications. Geometric theory will be used to explore proof methodology.

**COURSE TITLE:** HONORS GEOMETRY  
**Recommendation:** Grade of "B" or Better in 8<sup>th</sup> grade math; Teacher Recommendation  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Geometry, Glencoe, 1995

*\*Weighted Grade Class*

This course includes the study of points, lines, planes, and the figures they can form along with set theory and the examination of the proof methodology in the study of geometric forms, as well as the applications these forms have in real situations. The honors course will move at a more rapid pace and explore each subject in greater depth than in the traditional geometry course by using activities.

**COURSE TITLE:** ALGEBRA I  
**Recommendation:** None  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Algebra I, McDougal Littel, 2004

This is a college preparatory math course. Content includes fundamental laws and operations on algebraic expressions, signed numbers, solving equations, fractional and quadratic equations, solving systems, roots and radicals. Real world applications and connections are made through the use of word problems.

**COURSE TITLE:** ALGEBRA I PLUS  
**Recommendation:** D+ or lower in Algebra I  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** No  
**Textbook:** Algebra I, Glencoe, 1995

This class is designed for those students who need a stronger foundation in Algebra 1 before moving on to Algebra 2. Most of the year will be spent covering polynomials, quadratics, rational expressions, and system of equations.

**COURSE TITLE:** ALGEBRA II  
**Recommendation:** "C" or Better in Algebra I, Geometry, or Teacher Recommendation  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Algebra 2 with Trigonometry, Glencoe, 1995

Algebra II picks up where Algebra I leaves off and provides a foundation for Trigonometry, College Algebra, Calculus, and Analytic Geometry. It also provides a background for studies in the social, biological, and physical sciences. Topics include: equations and functions in the first, second, and higher degrees, systems of equations, the real and complex numbers; conic sections; logarithms; and sequences and series.

**COURSE TITLE:** HONORS ALGEBRA II  
**Recommendation:** Grade of "B" or Better in Algebra I, Geometry, or Teacher Recommendation  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Algebra 2 with Trigonometry, Glencoe, 1995

*\*Weighted Grade Class*

The Honors course studies the concepts of Algebra II in greater detail. The course is a more rigorous examination of the concepts of Algebra II Honors Algebra II emphasizes solutions of all of the varieties of problems available in each concept, not just the easy ones. Topics included are: linear functions, systems of equations, irrational and complex numbers, quadratic equations and functions, conics, polynomial functions, exponential and logarithmic equations, statistics and probability.

**COURSE TITLE:** DISCRETE MATHEMATICS  
**Recommendation:** Algebra I, Geometry and Algebra II  
**Grade Level:** 11-12 **Course Length:** One Year

**University Prep Program:** Yes      **A-G Requirement:** Yes      **NCAA Approved:** Yes  
**Textbook:** Excursions in Modern Mathematics, Pearson/Prentice Hall

This course is specifically designed for students interested in the applications of mathematical concepts to government, business and nature. This course is specifically for the student planning on majoring in non-scientific, non-technical areas. Discrete Mathematics explores applications dealing with group decisions, elections, power and fairness, population growth and symmetry in nature using nontraditional geometric ideas and organizational problem solving.

**COURSE TITLE:**                      **MATH ANALYSIS/PRE-CALCULUS**  
**Recommendation:** Algebra II with a Grade of "C" or Better; Geometry Recommended  
**Grade Level:** 11-12                      **Course Length:** One Year  
**University Prep Program:** Yes                      **A-G Requirement:** Yes                      **NCAA Approved:** Yes  
**Textbook:** Advanced Mathematical Concepts, Glencoe, 2006

*\*Weighted Grade Class*

Math Analysis is a full year course that blends together all of the pre-calculus concepts and skills that must be mastered prior to enrollment in a college-level calculus course. The first semester is highlighted by the study of trigonometry, along with linear and higher degree functions, and matrices. The second semester takes up the study of sequences and series, polar coordinates, complex numbers, exponential and logarithmic functions, conics, an introduction to calculus, and probability and statistics.

**COURSE TITLE:**                      **ADVANCED PLACEMENT CALCULUS**  
**Recommendation:** Algebra II with Teacher Recommendation; Grade of "C" or Better in Math Analysis  
**Grade Level:** 12                      **Course Length:** One Year  
**University Prep Program:** Yes                      **A-G Requirement:** Yes                      **NCAA Approved:** Yes  
**Textbook:** Calculus, Sixth Edition, Larson, Hostetler, and Edwards, Houghton Mifflin Company, 1998  
Study and Solutions Guide, Volume I, Heyd, Houghton Mifflin Company, 1998  
Graphing Technology Guide for Calculus, Levy, Houghton Mifflin Company, 1998

*\*Weighted Grade Class*

This is the most advanced math course offered at Serrano High School. The following areas will be covered: derivatives of algebraic functions, maxima, minima, anti-differentiation, elementary integration applications, and logarithmic differentiation. After the Advanced Placement test we will cover Integration Techniques. Students may only receive the weighted grade if they take the Advanced Placement test in the spring.

## **SCIENCE**

### **PHYSICAL SCIENCES**

All students are required to take an Earth Science Course in the 9<sup>th</sup> grade. Courses that meet this requirement include the following: Earth and Space Science Essentials, Earth & Planetary Science, and Agricultural Physical Science. The only exception applies to 9<sup>th</sup> grade students who are concurrently enrolled in Honors Geometry during their freshman year and who have the approval of the science teacher or an administrator. Those students may select to alternatively enroll in Principles of Physics. All 9<sup>th</sup> grade students will take the CST (California Standards Test) in Earth Science or Physics as indicated by their course enrollment.

**Important:** If a student does not pass Earth Science in their 9<sup>th</sup> grade year, the student will have to make up credits in their 11<sup>th</sup> or 12<sup>th</sup> grade year in a different physical science course. Earth and Space Science Essentials, Earth & Planetary Science, and Agricultural Earth Science are only open to 9<sup>th</sup> grade students.

## 9<sup>th</sup> Grade Physical Science Courses

**COURSE TITLE:** AGRICULTURAL EARTH SCIENCE  
**Grade Level:** 9 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** No **NCAA Approved:** Yes  
**Textbook:** Earth Science, Prentice Hall, 2006

For much of the twentieth century, science has been divided into unique, highly specialized disciplines that have attempted to unlock the workings of nature. This course is designed to unify the separate sciences into an integrated scientific approach to have an understanding of how our earth system works. Major topics include the role of society, matter, energy, astronomy, geology, meteorology, and biology. The course is a lab/activity-based class designed to meet the physical science requirement. Students will take the Earth Science CST in the spring.

**COURSE TITLE:** EARTH AND SPACE SCIENCE ESSENTIALS  
**Recommendation:** Students enrolled in a lower level English course may take this class; Teacher recommendation  
**Grade Level:** 9<sup>th</sup> grade only **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** Earth Science, Prentice Hall, 2006

This course is designed to introduce the principles and processes of earth and space science. It is designed to help the student better understand the environment of the earth, solar system, and the universe we live in. The objectives of the course are based on the California State Science Standards and cover the topics of geology, oceanography, meteorology, and astronomy. Students will take the Earth Science CST in the spring.

**COURSE TITLE:** EARTH AND PLANETARY SCIENCE  
**Grade Level:** 9<sup>th</sup> grade only **Course Length:** One Year **NCAA Approved:** Yes  
**University Prep Program:** Yes **A-G Requirement:** Yes ((Meets University Elective Requirement Only)  
**Textbook:** Earth Science, Prentice Hall, 2006

This is a college-prep course that introduces the student to the study of the earth as one of the planets in our solar system and extends to the space beyond the earth. Specific topics covered are geology (rocks and minerals, plate tectonics, earthquakes and volcanoes), oceanography, meteorology (weather and climate), and astronomy (planets, stars, galaxies and the universe as a whole). Numerous labs and activities are designed to illustrate the concepts covered in class. Students will take the Earth Science CST in the spring.

**COURSE TITLE:** PRINCIPLES OF PHYSICS  
**Recommendation:** Algebra I with grade of "C" or Better  
(9<sup>th</sup> grade may enroll only if concurrently enrolled in Honors Geometry and with approval of the teacher or an administrator)  
**Grade Level:** 11-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Conceptual Physics, Prentice Hall, 2006

This is a college preparatory physical laboratory course. It introduces all of the physics topics covered in the California State Science Standards, using a variety of methods including lecture, hands-on activities, laboratory practices and computer simulations. Subjects covered include mechanical motion, rotational motion, gravity, heat, waves, sound, light, and electricity. All students, except ones enrolled in the 12<sup>th</sup> grade, will take the Physics CST in the spring.

## 11<sup>th</sup> and 12<sup>th</sup> Grade Physical Science Courses

**COURSE TITLE:** GEOLOGY  
**Recommendation:** Algebra I or Concurrently Enrolled  
**Grade Level:** 11-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Physical Geology 11th Edition, McGraw Hill, 2007

This course is designed to acquaint students with the major concepts in geology and the investigative processes through which geologic discoveries are made. The configuration of the earth, geologic time scales, physical

processes that have shaped the earth's surface, and the earth's origin and history will be investigated. Specific topics will include: earthquakes, faults, rocks, minerals, volcanoes, weathering, soils, geologic resources, water resources, and more. Students in 11th grade will take the Earth Science CST in the spring.

**COURSE TITLE:** **CSU GEOLOGY 101**  
**Recommendation:** Algebra I and Geometry with a "C" or better. Principles of Physics and Chemistry with a "C" or better is highly recommended.  
**Grade Level:** 12 **Course Length:** One Semester (Equivalent to five quarter units at CSU)  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Physical Geology 11th Edition, McGraw Hill, 2007

*\*Weighted Grade Class*

This course is designed and intended for the university-bound student. The course is a university-level course that allows a student to earn credit toward their General Education Science Elective requirements in the University of California and California State University systems. The course provides an introduction to the scientific study of the earth, particularly the structure, composition, distribution and modification of earth materials, and processes that shape the surface of the earth. The course is equivalent to four hours lecture and three hours laboratory per week at CSU. Units: 5 quarter units, 10 high school units. Students will register as a university student. The grade earned in the course will become a part of the student's college/university transcripts. Fees: \$33. Fee includes University registration fees, laboratory fees, and transportation to CSU-San Bernardino for Laboratory #2 and walking field trip to the San Andreas Fault.

**COURSE TITLE:** **CSU GEOLOGY 205, VOLCANIC HAZARDS, SURVEILLANCE AND PREDICTION**  
**Recommendation:** Algebra I and Geometry with a "C" or better. Principles of Physics and Chemistry with a "C" or better is highly recommended.  
**Grade Level:** 12 **Course Length:** One Quarter (Equivalent to two quarter units at CSU)  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** None

*\*Weighted Grade Class*

This course is designed and intended for the university-bound student. The course is a university-level course that allows a student to earn credit toward their General Education Science Elective requirements in the University of California and California State University systems. Students will enroll in the course concurrently with Geology 210 during the Spring Semester. The course provides an introduction to the study of volcanic eruptions, and the effects of volcanic eruptions on humans, buildings, economic activities, and world climate. Units: 2 quarter units, 5 high school units. Students will register as a university student. The grade earned in the course will become a part of the student's college/university transcripts. Fees: \$21. Fee includes University registration fees and laboratory fees.

**COURSE TITLE:** **CSU GEOLOGY 210, EARTHQUAKES: SCIENCE AND PUBLIC POLICY**  
**Recommendation:** Algebra I and Geometry with a "C" or better. Principles of Physics and Chemistry with a "C" or better is highly recommended.  
**Grade Level:** 12 **Course Length:** One Quarter (Equivalent to two quarter units at CSU)  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Earthquakes, Bolt, B.A., 5th ed.

*\*Weighted Grade Class*

This course is designed and intended for the university-bound student. The course is a university-level course that allows a student to earn credit toward their General Education Science Elective requirements in the University of California and California State University systems. Students will enroll in the course concurrently with Geology 205 during the Spring Semester. This course will include an introduction to the scientific study of earthquakes, the assessment of seismic hazards, earthquake engineering, and the physical and sociological effects of earthquakes. Various public policies aimed at mitigating earthquake hazards and attempts at earthquake prediction will also be examined. Units: 2 quarter units, 5 high school units. Students will register as a university student. The grade earned in the course will become a part of the student's college/university transcripts. Fees: \$21. Fee includes University registration fees and laboratory fees.

**COURSE TITLE:** PRINCIPLES OF PHYSICS

**Recommendation:** Algebra I with grade of "C" or Better (9th grade may enroll if concurrently enrolled in Geometry and with teacher or administrator approval)

**Grade Level:** 11-12 **Course Length:** One Year

**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes

**Textbook:** Conceptual Physics, Prentice Hall, 2006

This is a college preparatory physical laboratory course. It introduces all of the physics topics covered in the California State Science Standards, using a variety of methods including lecture, hands-on activities, laboratory practices and computer simulations. Subjects covered include mechanical motion, rotational motion, gravity, heat, waves, sound, light, and electricity. All students, except ones enrolled in the 12<sup>th</sup> grade, will take the Physics CST in the spring.

**COURSE TITLE:** ADVANCED PLACEMENT PHYSICS B

**Recommendation:** Algebra II with a "C" or Better  
Enrollment in Math Analysis is strongly recommended.

**Grade Level:** 11-12 **Course Length:** One Year

**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes

**Textbook:** Physics, 6<sup>th</sup> Edition, Giancoli, Prentice Hall, 2006

*\*Weighted Grade Class*

A.P. Physics is a trigonometry-based college level laboratory science course. Students will be instructed in the basic principles and laws of physics, including matter, inertia, mass density, energy, relationships between matter and energy, atomic structure, heat, light, sound, and electricity. Emphasis will be placed on problem solving, notation, and accuracy of calculations. Students may only receive the weighted grade if they take the Advanced Placement test in the spring.

**COURSE TITLE:** CHEMISTRY

**Recommendation:** Algebra II with a Grade of "C" or Better of concurrent enrollment

**Grade Level:** 11-12 **Course Length:** One Year

**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes

**Textbook:** A Modern Course, Smoot, Price & Smith, Merrill Publishing, 1983  
Solving Problems in Chemistry, Himes, Smoot & Smith, Merrill Publishing Company, 1983

This course deals with the concept of the submicroscopic world of chemistry and is a laboratory-oriented course. Subject matter includes atomic structure, chemical formulas and equations, physical phases of matter, solutions, carbon compounds, chemical reactions, and qualitative and quantitative analysis. Students in 11<sup>th</sup> grade will take the Chemistry CST in the spring.

**COURSE TITLE:** HONORS CHEMISTRY

**Recommendation:** Algebra II with a Grade of "B" or Better

**Grade Level:** 11-12 **Course Length:** One Year

**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes

**Textbook:** Solving Problems in Chemistry, Himes, Smoot & Smith, Merrill Publishing Company, 1983

*\*Weighted Grade Class*

This course deals with the concept of the submicroscopic world of chemistry and is a laboratory-oriented course. Subject matter includes atomic structure, chemical formulas and equations, physical phases of matter, solutions, carbon compounds, chemical reactions, and qualitative and quantitative analysis. Students in 11<sup>th</sup> grade will take the Chemistry CST in the spring. In regular Chemistry, an extra credit problem will be handed out with each chapter test. These problems will **NOT** be available to Honors Chemistry. Instead, Honors Chemistry will be given a set of "Enrichment" problems. During second semester, there will be equilibrium problems that require the use of the Quadratic Formula. These problems will be extra credit in regular chemistry but **NOT** in Honors Chemistry.

## LIFE SCIENCES

All students are required to take a Biology Course in 10<sup>th</sup> grade. Courses that meet this requirement include the following: Biology Essentials, Biology I, Advanced Biology, AP Biology, and Agricultural

**Biology.** All 10<sup>th</sup> grade students will be taking the CST (California Standards Test) in Biology as well as the NCLB (No Child Left Behind) Federal Science Test in the spring.

**Important:** If a student does not pass one of the biology sciences in their 10<sup>th</sup> grade year, the student will have to make up credits in their 11<sup>th</sup> or 12<sup>th</sup> grade year with a different life science course. Biology and Agricultural Biology are equivalent courses so a student may enroll in only one or the other and a student may only earn credit in one or the other, not both. You will not be permitted to enroll in Biology Essentials once Biology or Agriculture Biology has been passed.

### 10<sup>th</sup> Grade Life Science Courses

**COURSE TITLE:** **BIOLOGY ESSENTIALS**  
**Recommendation:** Students enrolled in a lower level English course may take this class; Teacher recommendation.  
**Grade Level:** 10 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** Biology, Prentice Hall, 2006  
Biology Essentials is an introductory course devoted to the major biological themes and life processes. The core objectives of the course are based on the California State Standards for Biology. The course meets the Serrano High School life science lab graduation requirement. Topics include an introduction to ecology, chemistry, cellular biology, genetics, evolution, anatomy and physiology. Students will take the Biology CST and NCLB Science test in the spring. **Note: Upon completion of Biology Essentials, student should enroll in Biology I for their third year of science.**

**COURSE TITLE:** **BIOLOGY I**  
**Recommendation:** None  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Biology, Prentice Hall, 2006  
This is a standard first year course in biology. Emphasis is placed on the cellular level of organization of living organisms and is laboratory-oriented. Topics covered include chemical/physical nature of life, cellular biology, principles of heredity, biotechnology, evolution, ecology, anatomy, and physiology. The objectives of the course are based on the California State Standards for Biology. Students who successfully complete this course with a "C" or better may not enroll in Agricultural Biology which covers similar material. Students in grades 10 and 11 will take the Biology CST, and students in grade 10 will take the NCLB Science test in the spring.

**COURSE TITLE:** **AGRICULTURAL BIOLOGY**  
**Recommendation:** Students must participate in FFA activities  
**Grade level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Biology, Prentice Hall, 2006  
This course is a laboratory science course for the college-bound student. The course emphasizes detailed knowledge of the central concepts, principles, and basic factual material of the following topics: molecular and cellular aspects of living things; structure and function of agricultural plants and animals; genetics, plant and animal diversity; and principles of classification, ecological relationships, and animal behavior. Agricultural Biology meets the life science requirement for graduation. Students who successfully complete this course with a "C" or better may not enroll in Biology I which covers similar material. Students in grades 10 and 11 will take the Biology CST, and students in grade 10 will take the NCLB Science test in the spring.

**COURSE TITLE:** **ADVANCED BIOLOGY**  
**Recommendation:** Algebra I or concurrent enrollment. Grade of "B" or better in Earth & Planetary Science.  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Biology, Concepts and Connections, Pearson, 2006

*\*Weighted Grade Class*

This is an introductory college preparatory course in biology designed to prepare students for A.P. Biology and other accelerated science courses. Emphasis is placed on biological chemistry, cellular morphology,

physiology, energy and metabolism; genetics, gene structure, gene expression and biotechnology; principles of evolution and ecology; classification; and the physiology and morphology of plants and animals. Laboratory investigations and dissections correlate with the content material while developing observational, experimental, and communicative skills. Students are expected to spend a minimum of 5 hours on homework/studying per week. In order to receive a weighted grade, students are required to complete and earn a passing grade on a summer assignment. Students who do exceptionally well in this course may opt to attend additional tutoring second semester and to take the AP Biology test in the spring. Students in grades 10 and 11 will take the Biology CST, and students in grade 10 will take the NCLB Science test in the spring.

**COURSE TITLE:** ADVANCED PLACEMENT BIOLOGY  
**Recommendation:** Earth & Planetary Science with a Grade "A". Advanced Biology with Grade of "B" or Better or Teacher Approval with Completion of Biology I and Algebra I.  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Biology, Concepts and Connections, Pearson, 2006

*\*Weighted Grade Class*

This course is an accelerated college-level course designed to cover biological chemistry, cell anatomy and physiology, energy transformation, molecular genetics, heredity, evolution, principles of taxonomy and systematics, a survey of monera, protista, fungi, plants and animals, and a study of ecology. Related laboratory investigations will assist students to make detailed observations, record accurately, operate technical equipment, interpret data, analyze statistics, and formulate new hypothesis. This course is designed to assist students in preparing for the Advanced Placement Examination in Biology and to earn college credit depending on the test results. Students will only receive the weighted grade if they complete the summer assignment and take the Advanced Placement test in the spring. To be successful in this course requires between 5-10 hours of study/homework per week. Students in grades 10 and 11 will take the Biology CST, and students in grade 10 will take the NCLB Science test in the spring.

### 11<sup>th</sup> and 12<sup>th</sup> Grade Life Science Courses

**COURSE TITLE:** AGRICULTURAL BIOLOGY II  
**Recommendation:** Agricultural Biology or Biology I; Student must participate in FFA activities  
**Grade level:** 11-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** pending  
**Textbook:** Biology, Prentice Hall, 2006

This one year lab science course is designed for college bound students. Using agriculture as the learning vehicle, the course will emphasize biological principles in a lab environment. Students in grade 11 will take the Biology CST in the spring.

**COURSE TITLE:** ANATOMY AND PHYSIOLOGY  
**Recommendation:** Algebra I or concurrent enrollment. Grade of "B" or better in Biology is strongly recommended.  
**Grade Level:** 11-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Human Anatomy and Physiology, Addison Wesley, 2001

This is a college preparatory course dealing with the human body from both a morphological and physiological viewpoint. The course is laboratory-oriented, with dissection of a cat for purposes of comparison to human tissues and systems. In addition, lectures, labs, demonstrations, and discussions concerning functional activities of the living body in terms of both cellular and systemic functions will be conducted. The objectives of this course are based on the California State Standards for Biology. Many of the standards that were covered extensively during the sophomore year biology courses are reviewed and reinforced with emphasis on application of those standards. Students in grade 11 will take the Biology CST in the spring.

**COURSE TITLE:** MEDICAL PATHWAY ANATOMY AND PHYSIOLOGY (Kinesiology/Sports Medicine)  
**Recommendation:** Algebra I or concurrent enrollment. Grade of "B" or better in Biology is strongly recommended.  
**Grade Level:** 11-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes

**Textbook:** Essentials of Human Anatomy and Physiology, Addison Wesley, 2001

This is a college preparatory course dealing with the human body from both a morphological and physiological viewpoint for students in the Medical Pathway. This course will also include the mechanics of injury causes as well as overviews of common athletic injuries. The course is laboratory-oriented, with dissection of a cat for purposes of comparison to human tissues and systems. In addition, lectures, labs, demonstrations, and discussions concerning functional activities of the living body in terms of both cellular and systemic functions will be conducted. The objectives of this course are based on the California State Standards for Biology. Many of the standards that were covered extensively during the sophomore year biology courses are reviewed and reinforced with emphasis on application of those standards. Students in grade 11 will take the Biology CST in the spring.

**COURSE TITLE:** MARINE BIOLOGY

**Recommendation:** Algebra I or concurrent enrollment. Grade of "B" or better in Biology

**Grade Level:** 11-12 **Course Length:** One Year

**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes

**Textbook:** Life on an Ocean Planet, Current Publishing, 2006

This is a college-preparatory course that is laboratory oriented. Emphasis is on marine organisms and their habitats. Topics include oceanography, water chemistry, marine ecology, mariculture, structure and physiology of protists, marine plants, and marine invertebrate and vertebrate organisms. Laboratory activities and dissections of marine organisms are conducted on a regular basis as related to content studied. The objectives of this course are primarily based on the California State Standards for Biology. Many of the standards that were covered extensively during the sophomore year biology courses are reviewed and reinforced with emphasis on application of those standards. Students in grade 11 will take the Biology CST in the spring.

**COURSE TITLE:** ADVANCED PLACEMENT BIOLOGY

**Recommendation:** Advanced Biology with Grade of "B" or Better or Teacher Approval with Completion of Biology I and Algebra I.

**Grade Level:** 10-12 **Course Length:** One Year

**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes

**Textbook:** Biology, Concepts and Connections, Pearson, 2006

*\*Weighted Grade Class*

This course is an accelerated college-level course designed to cover biological chemistry, cell anatomy and physiology, energy transformation, molecular genetics, heredity, evolution, principles of taxonomy and systematics, a survey of monera, protista, fungi, plants and animals, and a study of ecology. Related laboratory investigations will assist students to make detailed observations, record accurately, operate technical equipment, interpret data, analyze statistics, and formulate new hypothesis. This course is designed to assist students in preparing for the Advanced Placement Examination in Biology and to earn college credit depending on the test results. Students will only receive the weighted grade if they complete the summer assignment and take the Advanced Placement test in the spring. To be successful in this course requires between 5-10 hours of study/homework per week. Students in the grades 10 and 11 will take the Biology CST, and students in grade 10 will take the NCLB Science test in the spring.

## HISTORY/SOCIAL SCIENCE

**COURSE TITLE:** PHYSICAL AND CULTURAL GEOGRAPHY

**Grade level:** 9 **Course Length:** Semester

**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes

**Textbook:** World Geography Today, Holt, Reinhart and Winston, 2005

This one semester course is a required course for all freshman students. It will be a general survey course dealing with the basics of geography of the world. Included in the course will be the study of maps, landforms, water sources, climate and weather, political division, and the influence of geography upon cultures. Students must pass this course in order to graduate.

**COURSE TITLE:** HONORS PHYSICAL AND CULTURAL GEOGRAPHY

**Recommendation:** B Average in English/Social Science Courses in Middle School

**Grade Level:** 9 **Course Length:** Semester

**University Prep Program:** Yes      **A-G Requirement:** Yes      **NCAA Approved:** Yes  
**Textbook:** Human Geography: People, Places and Culture (8<sup>th</sup> edition), John Wiley and Sons, Inc., 2007

*\*Weighted Grade Class*

This one semester course is accelerated for the college bound freshman. The course will cover the study of both world and American geography. It will be an in-depth approach.

**COURSE TITLE:** **WORLD HISTORY**  
**Grade Level:** 10      **Course Length:** One Year  
**University Prep Program:** Yes      **A-G Requirement:** Yes      **NCAA Approved:** Yes  
**Textbook:** World History: The Modern World, Prentice Hall, 2007

This course will present information necessary for students to understand: 1) man's achievements (Age of Revolutions to modern times); 2) important events of the past that effect us today and tomorrow; 3) current events that effect us today and tomorrow; 4) major people and their influence on history; and 5) the importance of geography.

**COURSE TITLE:** **ADVANCED PLACEMENT EUROPEAN HISTORY**  
**Recommendation:** Cumulative 3.0 GPA and above or Grade of "B" or Better in Honors Physical & Cultural Geography or Physical and Cultural Geography  
**Grade Level:** 10 (Meets Social Science requirement); 11-12 Elective Credits  
**Course Length:** One Year  
**University Prep Program:** Yes      **A-G Requirement:** Yes      **NCAA Approved:** Yes  
**Textbook:** Western Civilization, McKay, Houghton Mifflin, Student Edition  
Sources of the Western Tradition, Perry, Peden, Von Laue, Houghton Mifflin

*\*Weighted Grade Class*

This is an accelerated course for college bound sophomores, juniors and seniors. Juniors and seniors will receive elective credit for this course. A.P. European History prepares students for the Advanced Placement Examination in European History. This course is an extensive study of Europe from 1450 to the present. The course will involve extensive reading and writing with an emphasis on class discussions rather than busy work. This course meets the social science requirement for tenth grade students. Students may only receive the weighted grade if they take the Advanced Placement test in the spring.

**COURSE TITLE:** **UNITED STATES HISTORY**  
**Grade Level:** 11      **Course Length:** One Year  
**University Prep Program:** Yes      **A-G Requirement:** Yes      **NCAA Approved:** Yes  
**Textbook:** America, Pathways to the Present, Prentice Hall, 2007

This course will focus on the history of American ideals, institutions, and values. The course will trace its European beginnings to the present. Major events, episodes, issues, and people will be studied. The influence of geography on American history will be explored in depth.

**COURSE TITLE:** **ADVANCED PLACEMENT UNITED STATES HISTORY**  
**Recommendation:** Cumulative G.P.A of 3.0 or Higher, and a "B" in World History and Physical/Cultural Geography  
**Grade Level:** 11      **Course Length:** One Year  
**University Prep Program:** Yes      **A-G Requirement:** Yes      **NCAA Approved:** Yes  
**Textbook:** America, Pathways to the Present, Prentice Hall, 2007

*\*Weighted Grade Class*

This course prepares students to take the national Advanced Placement Examination in American History. Course is an intensive study of America and its antecedents. Students may only receive the weighted grade if they take the Advanced Placement test in the spring.

**COURSE TITLE:** **AMERICAN GOVERNMENT**  
**Grade Level:** 12      **Course Length:** Semester  
**University Prep Program:** Yes      **A-G Requirement:** Yes      **NCAA Approved:** Yes  
**Textbook:** Magruder's American Government CA Edition, Prentice Hall, 2006

This course is designed to provide students with a comprehensive understanding of governmental institutions. Students will explore the responsibilities of government from the local to the national level. The political process will also be studied, specifically in regards to the election process.

**COURSE TITLE:** ADVANCED PLACEMENT GOVERNMENT

**Recommendation:** Cumulative 3.0 and Above or Grade of "C" or Better in A.P. U.S. History or a "B" in U.S. History.

**Grade level:** 12 **Course Length:** Semester

**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes

**Textbook:** American Government 10<sup>th</sup> Edition, Houghton Mifflin, 2006

*\*Weighted Grade Class*

This course is structured so as to give the student an analytical perspective on American government and politics. The course will explore both the general concepts and specific examples of politics, institutions, groups, and beliefs that make up government as practiced in the United States. Extensive writing is required. This course must be taken in conjunction with Honors Economics. Students may only receive the weighted grade if they take the Advanced Placement test in the spring.

**COURSE TITLE:** ECONOMICS

**Grade level:** 12 **Course Length:** Semester **NCAA Approved:** Yes

**University Prep Program:** Yes **A-G Requirement:** Yes (Meets University Elective Requirement Only)

**Textbook:** Economics: Principles in Action CA Edition, Prentice Hall, 2007

A survey course that will allow students to study and understand concepts of economics and economic theory. Students will solve economic problems through active participation in analysis and application exercises. Both macroeconomics and microeconomics will be analyzed.

**COURSE TITLE:** HONORS ECONOMICS

**Recommendation:** Cumulative 3.0 and Above or Grade of "C" or Better in A.P. U.S. History or a "B" in U.S. History.

**Grade Level:** 12 **Course Length:** Semester **NCAA Approved:** Yes

**University Prep Program:** Yes **A-G Requirement:** Yes (Meets University Elective Requirement Only)

**Textbook:** Holt Economics, Holt, 1999

*\*Weighted Grade Class*

This course must be taken in conjunction with Advanced Placement Government. This course will present an in-depth approach to the study of economics. The course is designed to introduce the student to economic concepts and theories at an accelerated pace.

**COURSE TITLE:** ADVANCED PLACEMENT ART HISTORY

**Recommendation:** Must Have Completed World History with a Grade of "B" or Better

**Grade Level:** 11-12 **Course Length:** One Year

**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** No

**Textbook:** Gardner's Art Through the Ages (12<sup>th</sup> Edition), Thomson/Wadsworth, 2005

*\*Weighted Grade Class*

AP Art History teaches students to understand works of art within their historical context by examining issues such as politics, religion, patronage, gender, function, and ethnicity. It also teaches students to understand works of art through both contextual and visual analysis. This course addresses the art of many of the world's cultures, both past and present, but focuses primarily on the European tradition. AP Art History meets the UC and CSU performing arts admissions requirement, and prepares students for the AP Art History Exam. Students may only receive the weighted grade if they take the Advanced Placement test in the spring.

**COURSE TITLE:** INTRODUCTION TO SOCIOLOGY

**Recommendation:** Taken with Psychology the other semester if possible

**Grade Level:** 10-12 **Course Length:** Semester **NCAA Approved:** Yes

**University Prep Program:** Yes **A-G Requirement:** Yes (Meets University Elective Requirement Only)

**Textbook:** Sociology: A Study in Human Relationships, Holt, 2005

This class is designed to introduce students to the work of sociologists, including understanding the causes and meaning behind human behavior. Topics of study include but are not limited to sociological research methods, how society functions, social groups, social change, and social problems. Students will apply these concepts to their own lives and broaden their perspectives with social, cross-cultural, and historical points of view.

**COURSE TITLE:** INTRODUCTION TO PSYCHOLOGY  
**Recommendation:** Taken with Sociology the other semester if possible  
**Grade Level:** 10-12 **Course Length:** Semester **NCAA Approved:** Yes  
**University Prep Program:** Yes **A-G Requirement:** Yes (Meets University Elective Requirement Only)

**Textbook:** Psychology: Principles in Practice, Holt, 2007  
 This class is designed to introduce students to the study of the human mind and behavior. Topics of study include but are not limited to psychological research methods, biological concepts, development, personality, psychological disorders, and treatment methods. Focus is placed on the application of psychological principles to everyday living.

**COURSE TITLE:** ADVANCED PLACEMENT PSYCHOLOGY  
**Recommendation:** Grade of "B" or better in 10<sup>th</sup> Grade English  
**Grade Level:** 11-12 **Course Length:** One Year **NCAA Approved:** Yes  
**University Prep Program:** Yes **A-G Requirement:** Yes (Meets University Elective Requirement Only)

**Textbook:** Exploring Psychology 6<sup>th</sup> Edition, Worth Publishing, 2005  
*\*Weighted Grade Class*  
 Advanced Placement Psychology is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields of psychology. The course is directed toward preparing students for the national Advanced Placement Psychology exam. Students may only receive the weighted grade if they take the Advanced Placement exam in the spring.

## PHYSICAL EDUCATION

**COURSE TITLE:** CORE PHYSICAL EDUCATION  
**Grade Level:** 9 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
 All students will be exposed to instruction in monitoring heart rates and threshold of training as it relates to the enhancement of a healthy and viable fitness program. Students will also learn strategies and skills of basic physical education activities. The California Physical Fitness and Wellness Test will be administered throughout the year.

**COURSE TITLE:** AEROBICS/STEP MOVEMENT  
**Grade Level:** 10-12 **Course Length:** Semester/Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
 Students will perform various instructor-led exercises to music. The exercises will work all the major muscles of the body against significant resistance. This class offers variety for continuous improvement such as aerobic dance, aerobic step (on an elevated platform), cardio circuit, strength training, country line dancing, flexibility exercises, and guest speakers. At the conclusion of this class the students will have increased endurance, strength, flexibility, and a better overall knowledge of lifelong fitness and nutrition. Students will chart their fitness progress by monitoring their resting heart rate, monthly measure and weigh, skin fold testing, and blood pressure improvement.

**COURSE TITLE:** BASKETBALL  
**Grade Level:** 10-12 **Course Length:** Semester/Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
 Students will be exposed to instruction in sport specific skills designed to progress the student towards game competence. Students will learn strategies of team and individual play to better learn and appreciate the sport of basketball.

**COURSE TITLE:** FIELD SPORTS

**Grade Level:** 10-12 **Course Length:** Semester/Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
Students will learn strategies and skills specific to team sports such as football, softball, soccer, speedball, and hockey.

**COURSE TITLE:** WEIGHT CONDITIONING

**Recommendation:** Must have lettered on an athletic team during the year and coach approval  
**Grade Level:** 9-12 **Course Length:** Semester/Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
Various types of weight training methods will be used to develop strength, coordination, flexibility, speed and balance. The Bigger, Faster, Stronger method of weight training will be primarily used, and muscle groups and their relationship to specific activities will be taught. Students will be able to set up their own workout schedule after taking this class. An athlete enrolled in the class will be able to individualize workouts to his/her sport.

**COURSE TITLE:** HEALTH

**Grade Level:** 10-12 **Course Length:** Semester  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
This course will take an in-depth look at mental health, first aid, family life education, venereal disease, ecology, and drug abuse (including alcohol and tobacco).

## WORLD LANGUAGES

**COURSE TITLE:** AMERICAN SIGN LANGUAGE I (ROP)

**Recommendation:** Minimum age of 15 or Teacher Recommendation and Career Plan  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbooks:** Learning American Sign Language: 2nd Edition, Pearson Education Inc., 2004  
Signing Naturally Level 1, Lentz, et al, 1988

This course will teach basic signs, grammar, finger spelling and the cultural aspects of deafness. Students will learn basic communication, as well as song signing. Total participation is mandatory in order to properly learn the language. Activities will include: students working in pairs or groups, role-playing, skits, songs, impromptu presentations. In addition to written homework, students are expected to study/practice the language outside the classroom on a daily basis. This course may be used as a basis for Senior Projects. This course is articulated with Victor Valley College for college credit.

**COURSE TITLE:** AMERICAN SIGN LANGUAGE II (ROP)

**Recommendation:** Completion of ASL I with a "C" or better  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes (Pending) **NCAA Approved:** Yes  
**Textbook:** Signing Naturally Level 2. Lentz, et al, 1988

The course offers a second year of ASL. Students will build on the basic skills learned in ASL I. They will learn how to express themselves using classifiers, spatial referencing, and other ASL features through song signing and in class activities. They will also learn story telling techniques and continue their study of Deaf culture and the Deaf community. This course may be used as a basis for Senior Projects.

**COURSE TITLE:** FRENCH III

**Recommendation:** French I and II with a Grade of "C" or Better  
**Grade Level:** 11-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Discovering French, Nouveau!, Level II, McDougal-Littell, 2004

This class is a continuation of French II. It will offer serious second language students a chance to further both oral and written skills in French, including an intensive study of grammar in which all grammar tenses will be taught, extensive vocabulary, extended oral communication, and cultural understanding.

**COURSE TITLE:** SPANISH I  
**Recommendation:** Grade of "B" or better in English classes  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** En Espanol!, Level I, McDougal-Littell, 2004

A beginning course in Spanish, emphasizing extensive vocabulary building, fundamentals of pronunciation, grammar focusing on the present tense, and culture. The course includes practice in all four language skills: listening comprehension, speaking, reading, and writing, with an emphasis on the listening and speaking.

**COURSE TITLE:** SPANISH II  
**Recommendation:** Spanish I with a Grade of "C" or Better or Teacher Approval  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** En Espanol!, Level II, McDougal-Littell, 2004

A continuation of Spanish I, this course includes a review for further understanding of vocabulary, idioms, and grammar on the present tense. This course is designed to continue exposing students to second language acquisition, emphasizing extensive vocabulary, idioms, grammar focusing on the past tenses of the preterit and imperfect, and an introduction of the subjunctive mood. There is a more intensive practice in the four language skills listening comprehension, speaking, reading, and writing. This course is taught primarily in Spanish with a continuing study of the Hispanic people and their culture.

**COURSE TITLE:** HONORS SPANISH II  
**Recommendation:** Cumulative 3.0 or Better & Grade of "C" or Better in Spanish I  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** En Espanol!, Level II, McDougal-Littell, 2004

*\*Weighted Grade Class*

This course is a preparatory class for Honors Spanish III and is designed to continue exposing students to the methods of rapid second language acquisition that began in the first year. The course begins with a review for further understanding of vocabulary, idioms, and grammar on the present tense, while continuing to emphasize extensive vocabulary, idioms, and grammar focusing on the past tenses of the preterit and imperfect and of the subjunctive mood. There is more intensive practice in the four language skills listening comprehension, speaking, reading, and writing. This course is taught primarily in Spanish with a continuing study of the Hispanic people and their culture.

**COURSE TITLE:** SPANISH FOR NATIVE SPEAKERS  
**Recommendation:** Students must be fluent in Spanish  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** En Espanol!, McDougal-Littell, 2004

This course is designed to improve the vocabulary, grammatical structures, and idiom usage of native Spanish speakers at each level. Native Spanish speakers need to be exposed to the structures of the Spanish language and require different instruction with the language than the non-native Spanish speakers.

**COURSE TITLE:** SPANISH III  
**Recommendation:** Spanish II with a grade of "C" or Better or Teacher Approval  
**Grade Level:** 11-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** En Espanol!, Level III, McDougal-Littell, 2004

A continuation of Spanish II, this course includes an intensive study of grammar, vocabulary, idiomatic expression, and places an emphasis on written and oral communication. This course is conducted in Spanish.

**COURSE TITLE:** HONORS SPANISH III  
**Recommendation:** Honors Spanish II with a grade of "C" or Better or Teacher Approval  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** En Espanol!, Level III, McDougal-Littell, 2004

*\*Weighted Grade Class*

A continuation of Honors Spanish II, this course is an intensive preparatory course of AP Spanish IV. The course will offer the serious second language students a chance to further both oral and written skills in Spanish, including an intensive study of grammar, with all tenses taught, extensive vocabulary, extensive oral communication, and a study of the Spanish people and their culture. This course is conducted in Spanish.

**COURSE TITLE:** ADVANCED PLACEMENT SPANISH IV  
**Recommendation:** Honors Spanish II and III with a grade of "C" or Better or Teacher Approval  
**Grade Level:** 11-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** En Español!, Level IV, McDougal-Littell, 2004  
Abriendo Paso

*\*Weighted Grade Class*

A more intensive study and practice in grammar and diction, including increased practice in listening comprehension, written discourse, writing of essays and reports on readings, and a simplistic introduction on literary analysis of short stories. The class is conducted exclusively in Spanish. This course prepares the student to take and pass the national Advanced Placement Examination in Spanish, and emphasis is placed on student participation with oral conversation. Students may only receive the weighted grade if they take the Advanced Placement test in the spring.

**COURSE TITLE:** ADVANCED PLACEMENT SPANISH V  
**Recommendation:** Honors Spanish II and III with a grade of "C" or Better or Teacher Approval  
**Grade Level:** 11-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** En Español!, Level IV, McDougal-Littell, 2004  
Album, D C Heath Company, 1993

*\*Weighted Grade Class*

This course includes a panoramic overview of Hispanic literature from both Spain and Latin America, beginning with medieval literature and culminating with the 20<sup>th</sup> century. This course places a great deal of emphasis on written expression and literary analysis. Students will only receive the weighted grade if they take the Advanced Placement test in the spring.

## SPECIAL EDUCATION

**COURSE TITLE:** SPECIALIZED ACADEMIC INSTRUCTION (SAI)  
**Recommendation:** As Determined by I.E.P. Team  
**Grade Level:** 9-12 **Course Length:** Semester/Year  
**University Prep Program:** No **A-G Requirement:** No  
**NCAA Approved For Students with Document Learning Disabilities:** Pending

This course is designed to provide individual instruction and service to those students who qualify for Special Education. Their needs consist in the area of written language, reading, or math. The needs will be identified in a written instructional plan developed by the I.E.P. team. The special education teachers will provide resource information to regular teachers, monitor student progress, and work with the career counselor on vocational development. Students will participate in the Specialized Academic Instruction courses for 0-4 periods each day. Other classes will be in mainstreamed electives and/or academics. Courses that are provided are English (2 levels: Reading and English), History, Math (4 levels: Pre-Algebra 9-11, Algebra 9-12, Basic Algebra 11-12, and Geometry 9-12), Science, Health, and Study Skills. These courses are requested through the IEP process. Study Skills is recommended for 10<sup>th</sup>-12<sup>th</sup> grade; 9<sup>th</sup> grade students need to discuss with a caseload manager and/or counselor the possibility of having this class.

**COURSE TITLE:** STUDY SKILLS  
**Recommendation:** IEP Placement or Teacher Approval  
**Grade Level:** 9-12 **Course Length:** Semester/Year  
**University Prep Program:** No **A-G Requirements:** No **NCAA Approved:** No

This course is designed for special education students who need assistance with daily assignments and homework. Students will be closely monitored to insure the completion of all assigned work. Use of Aeries is encouraged in this course.

**TEXTBOOKS:**

**ENGLISH**

Language, Green, Jane Fell Ed.D. – Sopris West, 1995, plus literature texts selected in accordance with state curriculum expectations and guidelines.

**HEALTH**

Fearon's Health Second Edition, Owen - Fearon, 1994

**HISTORY**

American Government, Larsen, Stephen- Fearon, 2001

Economics, Lopus, Jane - Fearon, 1992

Fearon's World Geography and Cultures, Kelly, Fearon, 1994

World History: The Modern World, Prentice Hall, 2007

United States History, Myers, Peter, 1999

We the People: The Citizen and the Constitution, Center for Civic Ed., 1999

Your Government & Your Rights, Owens – Fearon, 1991

American Government: Freedom, Rights, Responsibilities Vivian Bernstein, 1996

It's Your Business, Billings, Henry - Peoples Publishing Group, 1993

United States History, Fourth Edition - Pearson Learning Group, Globe Fearon, 2004

World History: The Modern World, Prentice Hall, 2007

**MATH**

Math Connections Integrated & Applied, Ashlock, Hatfield, Houser & Stoeckinger – Glencoe/McGraw-Hill, 1996

Merrill Pre-Algebra, Price, Rath, Leschensky – Glencoe, 1992

Merrill Algebra I, Foster, Winters, Gell, Rath, Gordon – Glencoe, 1995

**SCIENCE**

Biology, The Living Science, Prentice Hall, 1998

Biology, Holt, 2007

Earth Science, Prentice Hall, 2006

**ELECTIVES**

**COURSE TITLE:**

**ASB LEADERSHIP**

**Recommendation:**

Election to Student Body Office, Class Officer, Commissioner, and Teacher Approval (9<sup>th</sup> grade officers may join second semester if their schedule permits)

**Grade Level:**

10-12

**Course Length:**

One Year

**University Prep Program:**

No

**A-G Requirement:**

No

**NCAA Approved:** No

The ASB Leadership course is designed for students who have been accepted into the ASB program through the application and interview process. During this yearlong elective course, students will be taught the leadership and social skills necessary to plan and implement events and activities on campus. Instruction will include the following topics: event management, budgeting, community & public relations, and interpersonal communication skills.

**COURSE TITLE:**

**ASB/LINK CREW LEADERSHIP**

**Recommendation:**

Application and Interview or Previous Membership

**Grade Level:**

9-12

**Course Length:**

One Year

**University Prep Program:**

No

**A-G Requirement:**

No

**NCAA Approved:** No

The ASB/Link Crew Leadership course is designed for students who have been accepted into the ASB/Link Crew program through the application and interview process. During this yearlong elective course, students will be taught the leadership and social skills necessary to run the Link Crew and student recognition program on campus. Instruction will include the following topics: event management, budgeting, community & public relations, and interpersonal communication skills.

**COURSE TITLE:** PEER AMBASSADORS

**Recommendation:** Participation in the Multi-cultural Club (9<sup>th</sup> grade students may join)  
Application and Interview or Previous Membership

**Grade Level:** 10-12 **Course Length:** One Year

**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

The Serrano Peer Ambassador course is designed for students who have been accepted into the class through the application and interview process. The yearlong elective course allows students to identify, refer, educate, and support peers regarding multi-cultural and human relation issues. Synergy is one way Ambassadors accomplish this. The Ambassadors also fundraise to help third world countries with basic needs. Leadership skills such as event management, communication skills, and community outreach will be taught.

**COURSE TITLE:** TEACHER ASSISTANT

**Recommendation:** Approval by Dean's Office; Signature of teacher to T.A. with

**Grade Level:** 11-12 **Course Length:** One Year

**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

This course allows students to assist a teacher in his/her classroom, performing jobs as assigned by the teacher. Students must be in good standing with the Dean's Office in order to be approved.

## VISUAL/PERFORMING ARTS

**COURSE TITLE:** ART I FOUNDATIONS

**Grade Level:** 9-12 **Course Length:** One Year

**University Prep Program:** No **A-G Requirements:** Yes **NCAA Approved:** No

This program is an introduction to basic artistic concepts in the areas of drawing, design, painting, and color theory. Projects are created to teach and reinforce the elements of art. The media varies. A lab fee of \$15 per semester is required. The fee will pay for the project materials that the student will keep. Art history will be an integral part of the course of study.

**COURSE TITLE:** ART I – THREE DIMENSIONAL FOUNDATIONS

**Grade Level:** 9-10 **Course Length:** One Year

**University Prep Program:** No **A-G Requirements:** No **NCAA Approved:** No

This course offers an introduction into the principles and processes of three-dimensional art. Students will explore a variety of 3-D media, such as clay, plaster, paper, and wire. A lab fee of \$20 per semester is required. Art history will be an integral part of the course of study.

**COURSE TITLE:** STUDIO ART II - DESIGN

**Recommendation:** Grade of "C" or Better in Both Art IA and Art IB, or Teacher Approval

**Grade Level:** 10-12 **Course Length:** One Year

**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

This course offers an introduction to the concepts of, and exploration in, two and three-dimensional design. Students will learn design principles necessary for a basic foundation of understanding of conceptual design applications across various fields. They will also learn basic construction techniques for three-dimensional media. Plaster, papier-mâché, clay, paper, wood, and metal are some of the mediums used in this class. Other media may be used if arranged with instructor. A lab fee of \$20 per semester is required. The fee will pay for project materials that the student will keep. Art history will be an integral part of the course of study.

**COURSE TITLE:** STUDIO ART II –DRAWING AND PAINTING

**Recommendation:** Grade of "C" or Better in Both Art IA and Art IB, or Teacher Approval

**Grade Level:** 10-12 **Course Length:** One Year

**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

This second-year class will utilize Art I Foundation concepts in more complex assignments within the field of drawing and painting. Students at this level will be encouraged to refine their portfolios, preparing for individual exploration in their choice of media in the third year Studio Art. A lab fee of \$20 per semester is required. The fee will pay for project materials that the student will keep. Art history will be an integral part of the course of study.

**COURSE TITLE:** **STUDIO ART III**

**Recommendation:** Grade "C" or Better in Art IIA or Art IIB; or Teacher Approval

**Grade Level:** 10-12 **Course Length:** One Year

**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** No

This course is for the serious art student and is designed to assist in the preparation of a student's portfolio presentation. This course integrates the first two art programs with a college emphasis. Students will cover topics such as: New forms and concepts, research in periods and styles of celebrated art movements, and a formulation of a personal art statement. Students will utilize a variety of mediums of choice, once an individualized plan has been arranged with the instructor. This is a Studio Art course, and student will be guided by the instructor on an individual basis. Art History research is required. A lab fee of \$20 per semester is required. The fee will pay for project materials that the student will keep. Students will also need to provide materials that are not part of the regular curricular media. This course may be repeated for credit.

**COURSE TITLE:** **CRESCENDO (MIXED CHOIR/BEGINNING CHOIR)**

**Recommendation:** Audition; Teacher Approval

**Grade Level:** 9-12 **Course Length:** One Year

**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

This class is for any singer without previous high school choral singing experience. It is open to all grade levels. NO P.E. credit is given. Purchase of a uniform is not required. The objective of the class is to gain a greater appreciation of music through singing and to gain the skills and experience necessary to progress to any of the select choirs. Basic singing technique, music theory, and musicianship will be taught. Crescendo will be taking trips and going on competitions.

**COURSE TITLE:** **BEDAZZLED (WOMEN'S SHOW CHOIR)**

**Recommendation:** Audition; Teacher Approval

**Grade Level:** 9-12 **Course Length:** One Year

**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

Bedazzled is a medium level show choir. This course earns Physical Education credit. Purchase of a uniform is required. Previous choral experience is required. Previous dance experience is recommended. Choreography requires that students be in good health. After hours rehearsal and trips are required. Some competitions will conflict with sports/extra-curricular activities.

**COURSE TITLE:** **VOCAL MASTER CLASS (CONCERT CHOIR/SOLO WORKSHOP)**

**Recommendation:** Audition; Teacher Approval

**Grade Level:** 9-12 **Course Length:** One Year

**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

Advanced Mixed Choir is a medium level show choir. This course earns Physical Education credit. Purchase of a uniform is required. Previous choral experience is not required. Previous dance experience is recommended. Choreography requires that students be in good health. After hours rehearsal and trips are required. Some competitions will conflict with sports/extra-curricular activities. This class puts more emphasis on solo performances.

**COURSE TITLE:** **VOCAL POINT (ADVANCED MIXED SHOW CHOIR)**

**Recommendation:** Audition; Teacher Approval

**Grade Level:** 9-12 **Course Length:** One Year

**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** No

Vocal Point is an advanced level show choir. This earns Physical Education credit. Purchase of a uniform is required. This select competition choir specializes in show choir performance and vocal jazz. Rigorous choreography requires advanced singers to be in excellent physical health. Vocal Point will participate in the quarterly school evening concerts as well as several adjudicated festivals and competitions. Some competitions will conflict with sports/extra-curricular activities.

**COURSE TITLE:** SCHITZOPHONICS (CHAMBER CHOIR)  
**Recommendation:** Audition; Teacher Approval  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** No  
 Diamondback Singers is an advanced level choir. NO P.E. credit will be given. Purchase of a uniform is required. This select choir will sing a wide variety of music from different cultures, genres, and levels. Advanced musicianship is a must. Much of the music will be a cappella. This choir will perform in quarterly evening concerts, at least one adjudicated festival, and go on tours. An extended, long-distance educational trip/competition is possible with this group.

**COURSE TITLE:** THEATRE ARTS – ACTING I – MONOLOGUES (SOLO SCENES)  
**Grade Level:** 9-12 **Course Length:** Semester  
**University Prep Program:** Yes **A-G Requirement:** No **NCAA Approved:** No  
 This class consists of theatre artists who perform monologues (solo scenes) in the performing arts center. The creative process will be explored through acting techniques, improvisations, and theatre exercises.

**COURSE TITLE:** THEATRE ARTS – ACTING II – SCENE WORK  
**Recommendation:** Acting I with grade of “C” or better  
**Grade Level:** 9-12 **Course Length:** Semester  
**University Prep Program:** Yes **A-G Requirement:** No **NCAA Approved:** No  
 This course is an introduction to the world of Theatre Arts and its history. Students will become familiar with all aspects of play production, such as: directing/acting, set/light design, costume design/make-up, stage/house management, and publicity. All students will experience role preparation, rehearsal and performing before an audience.

**COURSE TITLE:** THEATRE ARTS – ACTING III – ONE-ACT PLAYS  
**Recommendation:** Audition; Teacher Approval  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** No  
 This course is an advanced acting class. Students will become familiar with all aspects of producing a play, such as: directing/acting, set/light design, costume design/make-up, stage/house management, and publicity. Production of two school plays will be an outcome of this class.

**COURSE TITLE:** THEATRE ARTS – ACTING IV – FULL LENGTH PRODUCTIONS  
**Recommendation:** Theatre Arts I or II or transfer equivalent; Audition; Teacher Approval  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes (Pending) **NCAA Approved:** No  
 This course is the top advanced acting class. Students will increase their knowledge of all aspects of theatre production including but not limited to: acting/directing, set/light design, costume/make-up design, stage/house management, and publicity. All students will experience role preparation, rehearsal and performance. This class will produce two main-stage productions per year.

**COURSE TITLE:** CONCERT BAND (Entry Level Band)  
**Recommendation:** Teacher Approval  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
 The Concert Band is the fundamental group of the Serrano High School Instrumental Music and Dance Program. This class focuses on learning and mastering the primary aspects of music theory and ear training as well as the ability to perform music literature at the medium level. This is a co-curricular ensemble and involvement in the Rattlesnake Regiment is also required in the fall semester to be enrolled in this class. The Concert Band is also a performance based class; attendance at all after school rehearsals and performances is mandatory. Concert Band does not count as Physical Education Credit.

**COURSE TITLE:** COLOR GUARD  
**Recommendation:** Audition Only  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

This class is open to all members of the Color Guard in the Instrumental Music and Dance Program. As part of the Rattlesnake Regiment, the class will be involved in learning the competitive field show as well as work on fundamental movement and flag work. In the winter, the class focuses on dance fundamentals and competes at indoor winter guard shows throughout the semester. This is a co-curricular ensemble and involvement in the Rattlesnake Regiment is also required in the fall semester to be enrolled in this class. The Color Guard is also a performance based class; attendance at all after school rehearsals and performances is mandatory. Color Guard counts as Physical Education Credit.

**COURSE TITLE:** **SYMPHONIC BAND (Intermediate Level Band)**  
**Recommendation:** Audition Only  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** No  
 The Symphonic Band is the core component of the Serrano High School Instrumental Music and Dance Program. This band is part of the marching band program. This ensemble consists of students with prior knowledge of basic music theory and ear training as well as having the ability to perform medium-advanced level music literature. Enrollment in this class is by audition only. This is a co-curricular ensemble and involvement in the Rattlesnake Regiment is also required in the fall semester to be enrolled in this class. The Symphonic Band is also a performance based class; attendance at all after school rehearsals and performances is mandatory. Symphonic Band counts as Physical Education Credit.

**COURSE TITLE:** **JAZZ BAND**  
**Recommendation:** Audition; Teacher Approval  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
 The Jazz Band represents the finest musicians in the field of Jazz. Styles of music such as Latin, swing, and funk are learned and played in this ensemble. Students wishing to audition into this class must also be concurrently enrolled in one of the other instrumental ensembles. Basic knowledge of music theory is needed to part of this ensemble. The Jazz Band performs at concerts throughout the year as well as community events.

**COURSE TITLE:** **WIND ENSEMBLE (Advanced Level Band)**  
**Recommendation:** Audition Only  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** No  
 The Wind Ensemble represents the finest instrumental musicians at Serrano High School. Advanced music theory and ear training is taught at this level as well as advanced level music literature. This is a co-curricular ensemble and involvement in the Rattlesnake Regiment Marching Band is also required in the fall semester to be enrolled in this class. The Wind Ensemble is also a performance based class; attendance at all after school rehearsals and performances is mandatory. Wind Ensemble counts as Physical Education Credit.

## **CAREER/TECHNICAL EDUCATION**

**R.O.P. (Regional Occupational Program)**  
**Medical Careers Pathway**  
**Partnership Academy**

<b>AGRICULTURE and NATURAL RESOURCES</b>
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**Pathway: Agricultural Business**

**COURSE TITLE:** **AGRICULTURAL EARTH SCIENCE**  
**Grade Level:** 9 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** No **NCAA Approved:** Yes  
**Textbook:** Earth Science, Prentice Hall, 2006

For much of the twentieth century, science has been divided into unique, highly specialized disciplines that have attempted to unlock the workings of nature. This course is designed to unify the separate sciences into an integrated scientific approach to have an understanding of how our earth system works. Major topics include the role of society, matter, energy, astronomy, geology, meteorology, and biology. The course is a lab/activity-based class designed to meet the physical science requirement. Students will take the Earth Science CST in the spring.

**COURSE TITLE:** AGRICULTURAL BIOLOGY  
**Recommendation:** Students must participate in FFA activities  
**Grade level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Biology, Prentice Hall, 2006

This course is a laboratory science course for the college-bound student. The course emphasizes detailed knowledge of the central concepts, principles, and basic factual material of the following topics: molecular and cellular aspects of living things; structure and function of agricultural plants and animals; genetics, plant and animal diversity; and principles of classification, ecological relationships, and animal behavior. Agricultural Biology meets the life science requirement for graduation. Students who successfully complete this course with a "C" or better may not enroll in Biology I which covers similar material. Students in grades 10 and 11 will take the Biology CST, and students in grade 10 will take the NCLB Science test in the spring.

**COURSE TITLE:** AGRICULTURAL BIOLOGY II  
**Recommendation:** Agricultural Biology or Biology I; Student must participate in FFA activities  
**Grade level:** 11-12 **Course Length:** One Year **NCAA Approved:** No  
**University Prep Program:** Yes **A-G Requirement:** Yes (pending )  
**Textbook:** Biology, Prentice Hall, 2006

This one year lab science course is designed for college bound students. Using agriculture as the learning vehicle, the course will emphasize biological principles in a lab environment. Students in grade 11 will take the Biology CST in the spring.

**COURSE TITLE:** LANDSCAPE OCCUPATIONS (ROP)  
**Recommendation:** Teacher approval; Minimum age of 16  
**Grade Level:** 9-12 **Course Length:** Semester + additional hours  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbooks:** Sunset Western Garden Book I, Sunset Publishing, 1995  
Residential Landscapes, Prentice Hall, 1985  
Turf Grass Science and Management, Delmar Publishers, 1984

Students will receive instruction on the installation of turf, shrubs, trees and flowers, and knowledge of soil, fertilizers, pesticides, herbicides, and irrigation systems. Students will develop the Serrano Orchard, cultivate plants appropriate for our local area, and grow herbs for the on-campus restaurant. Students may earn up to 10 credits per semester with related work. This course may be used as a basis for Senior Projects.

**Pathway: Agricultural Mechanics**

**COURSE TITLE:** AGRICULTURAL MECHANICS A AND B  
**Recommendation:** Agricultural Physical Science in 9<sup>th</sup> and 10<sup>th</sup> grade  
**Grade level:** 11-12 **Course Length:** Semester/Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** None

This course is designed to be a hands-on-class. Six topics will be covered during the year: wood, welding electrical, plumbing, concrete and tile. In the summer of 2005, the California Dept. of Education rewrote the agriculture and natural resources pathway. In doing so, the state standards were adopted for an agricultural mechanics course in place of individual wood and welding courses. A lab fee of \$20 per semester is required.

**Pathway: Animal Science**

**COURSE TITLE:** VETERINARY ASSISTANT (ROP)  
**Prerequisite:** Medical Terminology (can take concurrently); Minimum age of 16  
**Recommendation:** Agricultural Biology;

**Grade Level:** 11-12      **Course Length:** One Year + additional hours  
**University Prep Program:** No      **A-G Requirement:** No      **NCAA Approved:** No  
**Textbooks:** Introduction to Veterinary Science, J. Lawhead, M. Baker, Thompson, 2005  
Veterinary Office Practices, R. Kehn, Thompson Learning, 2004  
Tasks for the Veterinary Assistant, by P. Pattengale, Blackwell Pub.

The course is designed to prepare students for employment as a beginning Veterinary Assistant. Students receive a foundation for entry-level employment opportunities in veterinary clinics, kennels, laboratories, shelters, and pet stores. Topics include basic veterinary medical terminology, safety, animal behavior, handling and restraint techniques, nursing techniques, laboratory procedures, nutrition, sanitation, and client service. The class is 270 hours with 90 of the hours in an externship position in a veterinary office. Up to 15 credits may be earned for the full year. This course may be used as a basis for Senior Projects.

## ARTS, MEDIA and ENTERTAINMENT

### *Pathway: Media & Design Arts*

**COURSE TITLE:** **3-D DIGITAL ANIMATION (ROP)**  
**Recommendation:** Computer knowledge and background  
**Grade Level:** 9-12      **Course Length:** Year  
**University Prep Program:** No      **A-G Requirement:** Yes      **NCAA Approved:** No  
**Textbooks:** Macromedia Flash MX 2004 Hands-On Training, Rosanna Young  
3D Modeling with Cinema 4D R9, Tony Alley  
Cinema 4D- The Artist's Project Sourcebook, Anne Powers  
Animation Academy, 3D Max

This course is designed to instruct students in the basics of animation, writing and creating animated projects. Instruction includes how to plot script, and storyboard. Students will learn skills and techniques used in animated games, movies, and advertising, through the development of digital animation. This course may be used as a basis for Senior Projects. The class will be taught two days (Thurs. & Fri.) after school each week. This course is articulated with Victor Valley College for college credit.

**COURSE TITLE:** **DIGITAL DESIGN (ROP)**  
**Recommendation:** An interest in computers  
**Grade Level:** 9-12      **Course Length:** One Year  
**University Prep Program:** No      **A-G Requirement:** No      **NCAA Approved:** No  
**Textbook:** Graphic Design Concepts, M. Jacobs, 2004

This course will provide students with the skills to develop a broad perspective of art, design, communication theory, processes and tools and their applications in Multimedia Communications and Design. Students will apply design elements and principles to projects such as print media publications, digital media and website design. Students will use technology tools that allow them to incorporate text, graphic, sounds, animation and video into their projects. Students that achieve competency will have an opportunity for employment as multimedia artist/animator, graphic artist, and cartoonist. This course may be used as a basis for Senior Projects. This course is articulated with Victor Valley College.

**COURSE TITLE:** **SCREEN PRINTING (ROP)**  
**Recommendation:** Teacher approval; Minimum age of 16  
**Grade Level:** 9-12      **Course Length:** Semester  
**University Prep Program:** No      **A-G Requirement:** No      **NCAA Approved:** No  
**Textbook:** How to Print T-Shirts for Fun and Profit, Scott Fresner

This course provides entry-level training in screen process, sign making, and design. All aspects of screen-printing including layout and stencil techniques, photo emulsion, ink dryer, and squeegees will be used. Projects will be based on what is found in the workplace. This course may be used as a basis for Senior Projects.

### *Pathway: Production and Managerial Arts*

**COURSE TITLE:** **STAGECRAFT CONSTRUCTION & TECHNOLOGY (ROP)**  
**Recommendation:** Technical interest in Theater Arts; Minimum age of 16  
**Grade Level:** 10-12      **Course Length:** One Year + additional hours

**University Prep Program:** No                      **A-G Requirement:** No                      **NCAA Approved:** No

This course provides instruction and training for students in stagecraft construction and technology. Students that achieve competency in this course will be prepared for entry-level employment for positions such as stagehand, light technician, sound technician, and set decorator. Instruction and practical experience includes stage construction and sound and lighting technology, stage architecture, and stage design elements using the Serrano Performing Arts Center as the main focus for productions. Additional hours and credit will be granted for work provided beyond the regular school day for theatrical productions. This course may be used as a basis for Senior Projects.

## BUILDING TRADES and CONSTRUCTION

### *Pathway: Cabinetmaking and Woods Products*

**COURSE TITLE:**                      **WOODWORKING OCCUPATIONS (ROP)** (Beginning or Intermediate)

**Recommendation:**                      A technical interest in the woodworking field.

**Grade Level:**                      9-12                      **Course Length:**                      One Year

**University Prep Program:**                      No                      **A-G Requirement:**                      No                      **NCAA Approved:** No

**Textbooks:**

The course prepares students for entry-level positions in the woodworking industry. The course includes the use of basic and advanced tools and equipment, as well as, special materials and various wood finishes. The course is designed to serve students with limited background in woodworking and to serve students with previous training and experiences in woodworking. Students will demonstrate their knowledge and skill level by designing and completing wood projects. This course will lead students to the next level course of Furniture/Cabinetmaking and Manufacturing. This course may be used as a basis for Senior Projects.

**COURSE TITLE:**                      **FURNITURE/CABINET MANUFACTURING (ROP)**

**Recommendation:**                      One semester of woodworking or Teacher approval

Minimum age of 16

**Grade Level:**                      10-12                      **Course Length:**                      One Year (+ 2 ½ hrs a week)

**University Prep Program:**                      No                      **A-G Requirement:**                      No                      **NCAA Approved:** No

This class allows students to learn advanced woodworking and cabinetmaking skills that are required to be proficient in safety, use of hand tools, and knowledge of woods. Students design and select woods and materials, and build a variety of projects including desks, tables, stereo cabinets, etc. A materials fee will be charged unless the students bring in their own supplies. Students can earn 10 credits per semester. This class also meets in the evening. This course may be used as a basis for Senior Projects.

### *Pathway: Mechanical Construction*

**COURSE TITLE:**                      **ELECTRICAL REPAIR: FUNDAMENTALS (ROP)**

**Recommendation:**                      A technical interest in the electrical field; Minimum age of 16 or approval

**Grade Level:**                      10-12                      **Course Length:**                      One Year

**University Prep Program:**                      No                      **A-G Requirement:**                      No                      **NCAA Approved:** No

**Textbook:**                      Electricity & Electronics 10<sup>th</sup> ed., The Goodheart-Willcox Co., Inc, 2009

This course provides instruction and training for students interested in electrical occupations. Students will achieve entry-level skills in the electrical field and a solid foundation for other construction related employment. Students will learn most aspects of residential, light commercial electrical repair, electrical theory, and electrical tools wiring systems, electrical circuits, and troubleshooting for electricians. This course may be used as a basis for Senior Projects.

## ENGINEERING and DESIGN

### *Pathway: Engineering Technology*

**COURSE TITLE:** INTRODUCTION TO ENGINEERING DESIGN (IED)  
**Recommendation:** None  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:**

This course allows students to use sophisticated three-dimensional modeling software to improve existing new designs, invent new designs, and to communicate the details of the designs to others. This is the introduction course to Project Lead The Way (PLTW) curriculum.

## EDUCATION, CHILD DEVELOPMENT, and FAMILY SERVICES

### *Pathway: Family and Human Services*

**COURSE TITLE:** AMERICAN SIGN LANGUAGE I (ROP)  
**Recommendation:** Minimum age of 15 or Teacher Recommendation and Career Plan  
**Grade Level:** 9-12 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbooks:** Learning American Sign Language: 2nd Edition, Pearson Education Inc.2004  
Signing Naturally Level 1 Lentz, et al, 1988.

This course will teach basic signs, grammar, finger spelling and the cultural aspects of deafness. Students will learn basic communication, as well as song signing. Total participation is mandatory in order to properly learn the language. Activities will include: students working in pairs or groups, role-playing, skits, songs, impromptu presentations. In addition to written homework, students are expected to study/practice the language outside the classroom on a daily basis. This course may be used as a basis for Senior Projects. This course is articulated with Victor Valley College for college credit.

**COURSE TITLE:** AMERICAN SIGN LANGUAGE II (ROP)  
**Recommendation:** Completion of ASL I with a "C" or better  
**Grade Level:** 10-12 **Course Length:** One Year **NCAA Approved:** Yes  
**University Prep Program:** Yes **A-G Requirement:** Yes (Pending)  
**Textbook:** Signing Naturally Level 2, Lentz, et al, 1988

The course offers a second year of ASL. Students will build on the basic skills learned in ASL I. They will learn how to express themselves using classifiers, spatial referencing, and other ASL features through song signing and in class activities. They will also learn story telling techniques and continue their study of Deaf culture and the Deaf community. This course may be used as a basis for Senior Projects.

### *Pathway: Child Development*

**COURSE TITLE:** CHILD DEVELOPMENT  
**Grade Level:** 9-10 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** The Developing Child; Understanding Children and Parenting, Holly Brisbane

This year long course is designed to detail the physical, cognitive and social/emotional development of children aged 0-18. This course will provide the foundation for further study in college. It will also be the prerequisite for the R.O.P. Child Care class. A portfolio is started in this class and carried to the R.O.P. classes and used for articulation with local community colleges.

**COURSE TITLE:** FAMILY AND HUMAN DEVELOPMENT  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** New textbook to be adopted

The family unit is the cornerstone of society. Students study family dynamics and responsibilities, how to deal with conflict and crisis, communication skills, interpersonal relationships in social and work settings, and how to balance personal, family and work roles for more satisfying family and work lives.

**COURSE TITLE:** CAREERS WITH CHILDREN/ADVANCED CAREERS WITH CHILDREN (ROP)  
**Recommendation:** Minimum age of 16



**COURSE TITLE:** ACCOUNTING I  
**Recommendation:** FACTS, Passed Algebra I (or higher level math) with a "C" or Better  
**Grade level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** Accounting, Real World Applications and Connections, Glencoe, 2004  
 Accounting I is articulated with VVC. Students passing the course with a "C" or better will receive college credit. The Accounting I course is an introductory course in computerized accounting using Peachtree accounting software. Students will spend 1/2 their time in the computer lab working out real world simulations with real companies. Students will understand how to apply basic accounting principles to their own personal finances.  
**Note:** 12<sup>th</sup> grade students may earn one year of math credit if they have completed the Algebra I requirement for graduation (this may be Algebra I, Algebra I Plus, or a combination of the two), have attempted geometry or Algebra II, and have passed the CAHSEE for math.

**COURSE TITLE:** VIRTUAL ENTERPRISE  
**Recommendation:** Computer Applications Accounting, Marketing, Economics of Business Ownership  
**Grade Level:** 11-12 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** No textbook; students use supplemental material provided by the instructor  
 A simulated business set up and operated by students to prepare them for working in a real business environment and provides an opportunity for students to apply concepts learned in various courses, including Economics, Marketing, Accounting, and Computer Applications. Business is transacted entirely on the Internet with other schools both in the state and around the world. Emphasis is placed on using current word processing, spreadsheet and database software along with electronic communications including e-mail. Students will present workshops to the class using presentations software.

**HEALTH SCIENCE and MEDICAL TECHNOLOGY**

**COURSE TITLE:** INTRO TO HEALTH CAREERS (ROP)  
**Recommendation:** Minimum age of 15 or Teacher Recommendation and Career Plan  
**Grade Level:** 9-12 **Course Length:** Semester  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
 This course is designed for students interested in exploring a career in the health care industry. Students research a variety of careers in the health care field. Instruction includes the concepts of group dynamics, conflict resolution and negotiation, legal and ethical responsibility, safety, first aid, and standard precautions. Related mathematics and language arts standards are reinforced. Students complete certification in AED (Automated External Defibrillation). This course may be used as a basis for Senior Projects.

**COURSE TITLE:** MEDICAL TERMINOLOGY (ROP)  
**Recommendation:** Minimum age of 15 or Teacher Recommendation and Career Plan  
**Grade Level:** 9-12 **Course Length:** Semester  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** Exploring Medical Language, 5<sup>th</sup> Edition, M.L. Brooks, Mosby, 2002  
 The class can be taken by anyone interested in a career in the health field. By the end of the course, students will be able to identify, spell, pronounce and define root words, prefixes and suffixes and common abbreviations. All terms will be applied to the human body, its regions, organs, and systems. Basic disease process and pathology will complete the curriculum. First Aid Certification can be earned. This course is articulated with Victor Valley College for Medical Terminology credit. This course is required as the first class for all students wanting to take a sequence of medical classes. The course is offered during the regular school day or as an evening course.

**Pathway: DIAGNOSTIC SERVICES**

**COURSE TITLE:** EKG MONITOR TECHNICIAN (ROP)  
**Recommendation:** Passed or currently taking Medical Terminology; Minimum age of 16  
**Grade Level:** 11-12 **Course Length:** Semester (2<sup>nd</sup> Semester only)  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

**Textbook:** EKG Plain and Simple, K. Ellis, 2007

This course is designed to train students to set up and operate a 12 lead EKG and attach a Holter monitor. Instruction is provided in the anatomy and physiology of the heart and terminology common to the cardiovascular system. Students are trained to interpret heart rate, basic rhythm strips, rhythm abnormalities, heart blocks, hypertrophy, infarction, and emergency situations that require immediate action. This course may be used as a basis for Senior Projects.

**Pathway:** *HEALTH INFORMATICS*

**COURSE TITLE:** MEDICAL INSURANCE BILLING (ROP)

**Prerequisite:** Medical Terminology

**Recommendation:** Minimum age of 16

**Grade Level:** 11-12 **Course Length:** Summer School

**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

Students receive instruction in medical office insurance billing procedures, including patient financial records, computerized billing, CPT-4 and ICD-9 coding, collection procedures, identifying and billing various insurance plans (group, PPO, HMO, IPA, federal, state, and worker's compensation). Students will utilize Medisoft medical billing software. The course is designed for 125 hours and is taught during the summer. This course is articulated with Victor Valley College for Medical Billing.

**Pathway:** *SUPPORT SERVICES*

**COURSE TITLE:** PERSONAL FITNESS TRAINER (ROP)

**Recommendation:** Teacher approval; Bio II, Minimum age of 16,

**Grade Level:** 11-12 **Course Length:** One Year + additional hours

**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

**Textbook:** Sports Medicine Essentials, J. Clover 2001

Students will learn the skills to become qualified to pass the personal fitness/trainer certification. Basic anatomy, physiology, vital signs, first aid, CPR, and nutrition are taught. Students will study personal fitness needs, and they will design programs for clients. Students may earn 10 credits per semester through this course. This course may be used as a basis for Senior Projects.

**Pathway:** *THERAPUTIC SERVICES*

**COURSE TITLE:** MEDICAL TERMINOLOGY (ROP)

**Recommendation:** Minimum age of 15 or Teacher Recommendation and Career Plan

**Grade Level:** 9-12 **Course Length:** Semester

**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

**Textbook:** Exploring Medical Language, 5<sup>th</sup> Edition, M.L. Brooks, Mosby, 2002

The class can be taken by anyone interested in a career in the health field. By the end of the course, students will be able to identify, spell, pronounce and define root words, prefixes and suffixes and common abbreviations. All terms will be applied to the human body, its regions, organs, and systems. Basic disease process and pathology will complete the curriculum. First Aid Certification can be earned. This course is articulated with Victor Valley College for Medical Terminology credit. This course is required as the first class for all students wanting to take a sequence of medical classes. The course is offered during the regular school day or as an evening course.

**COURSE TITLE:** EMERGENCY FIRST RESPONDER (ROP)

**Recommendation:** Medical Terminology, Fire Science, Biology; Minimum age of 16

**Grade Level:** 11-12 **Course Length:** Semester (1st Semester only)

**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

**Textbook:** 1<sup>st</sup> Responder, Jones & Bartlett Publishers, 2001

The course provides students with the knowledge and skills to take appropriate action as the first responder to an emergency scene. The course provides instruction in systems and structures of surface anatomy and key principles of physiology, including the basic functions of the nervous system, cardiovascular system, and the respiratory system. Students will perform an assessment of a patient's vital functions. Certified First Responder (CFR) is a required skill for entry-level fire fighter positions. Upon successful completion of this course, students will be eligible to receive a National Safety Council First Responder Card and American Red Cross Card, CPR (Cardiopulmonary Resuscitation) for the Professional. This course may be used as a basis for Senior Projects.

**COURSE TITLE:** MEDICAL ASSISTANT – FRONT OFFICE (ROP)  
**Prerequisite:** Medical Terminology (can take concurrently); Minimum age of 16  
**Grade Level:** 11-12, **Course Length:** One Year + additional hours  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
 This course provides the basic skills necessary for employment in a doctor's office. Front office operations include telephone techniques, appointment scheduling, receptionist duties, filing and billing. Additional time during second semester will be used to place students in local medical offices. CPR Adult Certification is included. Up to 10 credits can be earned in the second semester. This course may be used as a basis for Senior Projects.

**COURSE TITLE:** MEDICAL ASSISTANT – BACK OFFICE (ROP)  
**Prerequisite:** Medical Terminology (can take concurrently); Minimum age of 16  
**Recommendation:** Completion of Biology I with a "C" or better  
**Grade Level:** 11-12 **Course Length:** One Year + additional hours  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
 Students receive classroom and on-the-job experiences for employment as a Medical Assistant. Students perform clinical tasks, patient preparation, laboratory procedures, and assist the physician. Back office preparation includes: room setup, laboratory procedures, chart writing, safety, and sanitation. During the second semester, students will be placed in a medical office for experience related to course competencies. CPR Infant and Child Certification are included. Total of 15 credits for one full year can be earned. This course may be used as a basis for Senior Projects.

**COURSE TITLE:** SPORTS THERAPY AND FITNESS (ROP)  
**Recommendation:** Medical Terminology; Bio II, Minimum age of 16,  
**Grade Level:** 11-12 **Course Length:** One Year + additional hours  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
 This course uses basic anatomy and physiology knowledge toward the immediate and temporary care of injured individuals. Athletic Training is learned through training room management, service to Serrano athletes, equipment and fitting, and rehabilitative theory and exercise. Students will be assigned additional externship hours with specific athletic teams for after-school hours. Students can earn up to 10 credits per semester with the additional hours. This course may be used as a basis for Senior Projects. This course is articulated with Victor Valley College.

## HOSPITALITY, TOURISM and RECREATION

### *Pathway: Food Service and Hospitality*

**COURSE TITLE:** RESTAURANT OCCUPATIONS (ROP)  
**Recommendation:** Teacher approval; Minimum age of 16  
**Grade Level:** 10-12 **Course Length:** One Year + additional hours  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** The World of Food & Cooking for the Professional Chef  
Culinary Essentials, 2002

This course directly supports the on-campus restaurant named the Diamondback Café. This course will prepare students for occupations in the food service and restaurant industry. Students will plan, purchase, prepare and present full restaurant food specialties. The various areas of job responsibilities will be developed by each student: table setting, safety and sanitation, maintenance of tools and equipment, menu planning, management controls, as well as production of meals. Eight units of credit may be earned per semester. This course is articulated with Victor Valley College for Restaurant Occupation credit. This course may be used as a basis for Senior Projects.

## INFORMATION TECHNOLOGY

**COURSE TITLE:** COMPUTER APPLICATIONS I (formerly FACTs)  
**Recommendation:** None

**Grade Level:** 9-12                      **Course Length:** Semester  
**University Prep Program:** No                      **A-G Requirement:** No                      **NCAA Approved:** No  
**Textbook:** Microsoft Office XP Introductory, Thomson Course Technology, 2003

Computer Applications I is an introduction to the Microsoft Office Suite, including Word, Power Point and Excel. The other units include basic computer terminology, typing, and the Internet. This class will introduce students to technology they need to be successful at Serrano. MLA-style reporting, presentation and other business skills will be taught to give students skills in other classes. PowerPoint ends with a capstone project that is actually presented before the class in a full business setting. This course is a requirement for high school graduation.

**COURSE TITLE:**                      **COMPUTER APPLICATIONS II**

**Recommendation:** Computer Applications I with a "C" or Better  
**Grade Level:** 9-12                      **Course Length:** Semester  
**University Prep Program:** No                      **A-G Requirement:** No                      **NCAA Approved:** No  
**Textbook:** No textbook; students use supplemental material provided by the instructor.

Computer Applications II is oriented toward teaching students the higher functions of Word Processing, Spreadsheet Applications and Photo Editing. Beginning with a grounding in the higher-level functions of Word, the class progresses through the other units to give students marketable skills in an office or computer-based setting. Students can earn typing certification.

***Pathway: Media Support and Services***

**COURSE TITLE:**                      **WEB PAGE DESIGN with HTML**

**Recommendation:** FACTS with a "C" or Better  
**Grade Level:** 9-12                      **Course Length:** Semester  
**University Prep Program:** No                      **A-G Requirement:** No                      **NCAA Approved:** No  
**Textbook:** No textbook; students use supplemental material provided by the instructor

Students will learn to make web pages using HTML, the basic language of the Internet. Topics will include: HTML tags, text formatting, links, frames, tables, lists, forms, style sheets and Javascript. Being able to use HTML is essential to being an expert web page designer.

**COURSE TITLE:**                      **WEB PAGE DESIGN with DREAMWEAVER AND FLASH**

**Recommendation:** FACTS with a "C" or Better; Web Page Design with HTML is highly recommended but not required  
**Grade Level:** 9-12                      **Course Length:** Semester  
**University Prep Program:** No                      **A-G Requirement:** No                      **NCAA Approved:** No  
**Textbook:** No textbook; students use supplemental material provided by the instructor

Students will learn to make web pages using the Macromedia programs Dreamweaver, Fireworks and Flash. These programs are some of the most popular programs for web development currently in use. Dreamweaver can quickly and easily construct a web page, while Fireworks creates web graphics. Flash is extremely popular and is used to create animations and cartoons.

***Pathway: Network Communications***

**COURSE TITLE:**                      **INTRODUCTION TO COMPUTER SCIENCE** (formerly CIS)

**Recommendation:** FACTS with a "C" or better  
**Grade Level:** 9-12                      **Course Length:** Semester  
**University Prep Program:** No                      **A-G Requirement:** No                      **NCAA Approved:** No  
**Textbook:** Computer Concepts, 5<sup>th</sup> edition, Thomson Course Technology, 2004

This class will provide an overview of computers and the Internet. Students will explore how computers "tick", both physically and mentally (hardware and software), and how the Internet works. A must for students who love computers!

**COURSE TITLE:**                      **COMPUTER NETWORKING TECHNOLOGY**

**Recommendation:** FACTS or Teacher Approval  
**Grade Level:** 10-12                      **Course Length:** One Year  
**University Prep Program:** No                      **A-G Requirement:** No                      **NCAA Approved:** No  
**Textbook:** Network+ Guide to Networks, 4<sup>th</sup> Edition, Thomson Course Technology, 2004

Computer Networking Technology teaches students the skills necessary to design, build, and maintain small to medium sized networks.

**COURSE TITLE:** COMPUTER PROGRAMMING (formerly Visual Basic)  
**Recommendation:** Students must have already taken or should be concurrently taking Algebra I to sign up for this course and should be familiar with the Windows environment  
**Grade Level:** 10-12      **Course Length:** Semester  
**University Prep Program:** No      **A-G Requirement:** No      **NCAA Approved:** No  
**Textbook:** No textbook; students use supplemental material provided by the instructor  
This course teaches the BASIC programming language for the computer. At the end of the course, the student should be able to comprehend the nature of a computer program in BASIC and appreciate the skills of the programmer. The course should provide a good beginning toward developing the skills necessary to write a BASIC applications program of simple to medium difficulty. The programming projects include simple applications in mathematics, science, and computer gaming.

**COURSE TITLE:** COMPUTER MAINTENANCE & REPAIR (ROP)  
**Recommendation:** Basic knowledge of computer systems  
**Grade Level:** 9-12      **Course Length:** One Year  
**University Prep Program:** No      **A-G Requirement:** No      **NCAA Approved:** No  
**Textbook:** A+ Guide to Managing and Maintaining Your PC, J. Andrews, 2006  
In today's high tech society, the ability to repair and maintain computers is a very valuable skill. This class will teach how to repair and maintain computers both at home and in the workplace. Skills taught will include vocabulary, identification of computer parts, basic troubleshooting, computer repair and proper software installation. By the end of this 180-hour course, students should be able to build a computer. The class will meet two days per week, (Mon. & Tues.) after school. This course may be used as a basis for Senior Projects. This course is articulated with Victor Valley College for college credit.

<b>PUBLIC SERVICES</b>
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**Pathway: Legal and Government Services**

**COURSE TITLE:** LEGAL OFFICE ASSISTANT (ROP)  
**Recommendation:** Minimum age of 16  
**Grade Level:** 10-12      **Course Length:** One Year + additional hours  
**University Prep Program:** No      **A-G Requirement:** No      **NCAA Approved:** No  
**Textbook:** Legal Office Procedures, Prentice Hall  
This course prepares individuals for employment in a legal office. Students receive instruction in classifications of law, the judicial system, and legal terminology. Preparation of legal documents and correspondence, record keeping, office safety, and ethics are also covered. Students need to be competent in computer literacy and keyboarding skills before taking this course. This course may be used as a basis for Senior Projects.

**Pathway: Protective Services**

**COURSE TITLE:** EMERGENCY FIRST RESPONDER (ROP)  
**Recommendation:** Medical Terminology, Fire Science, Biology; Minimum age of 16  
**Grade Level:** 11-12      **Course Length:** Semester (1st Semester only)  
**University Prep Program:** No      **A-G Requirement:** No      **NCAA Approved:** No  
**Textbook:** 1<sup>st</sup> Responder, Jones & Bartlett Publishers, 2001  
The course provides students with the knowledge and skills to take appropriate action as the first responder to an emergency scene. The course provides instruction in systems and structures of surface anatomy and key principles of physiology, including the basic functions of the nervous system, cardiovascular system, and the respiratory system. Students will perform an assessment of a patient's vital functions. Certified First Responder (CFR) is a required skill for entry-level fire fighter positions. Upon successful completion of this course, students will be eligible to receive a National Safety Council First Responder Card and American Red Cross Card, CPR (Cardiopulmonary Resuscitation) for the Professional. This course may be used as a basis for Senior Projects.

**COURSE TITLE:** **FIRE SCIENCE TECHNOLOGY (ROP)**  
**Recommendation:** An Interest in a career in Fire Fighting, EMT; Minimum age of 16  
**Grade Level:** 11-12 **Course Length:** One Year + additional hours  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbooks:** Intro to Fire Protection, Thompson Publishers, 2003

This course combines classroom and practical experiences. The student will learn competencies needed to identify fire behavior and utilize fire apparatus, tools and equipment. Building construction, first aid, and fire prevention practices are taught. Saturday classes include a variety of fire fighting techniques, rescue procedures and water supply. Upon completion of the course, students will be trained for immediate employment as a brushfire fighter. Ten credits per semester. Class meets Monday-Friday and one Saturday a month. This course is articulated with Crafton Hills College and Victor Valley College. This course may be used as a basis for Senior Projects.

**COURSE TITLE:** **WILDLAND FIREFIGHTING (ROP)**  
**Recommendation:** Teacher approval; Minimum age of 16  
**Grade Level:** 10-12 **Course Length:** Semester (2<sup>nd</sup> semester only)  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

This course is designed to prepare students with the fundamentals of wildland firefighting skills. Classroom instruction, demonstration and hands-on experiences will be used. This course covers standards for environmental factors, survival, engine and pump operations, backfiring methods and equipment, map and compass use, air operations, basic hand tool sharpening, and fireline construction. This is an instructional program that prepares individuals to fight fires and control the outbreak of fires. This course may be used as a basis for Senior Projects. This course is articulated with Victor Valley College and Crafton Hills College.

**COURSE TITLE:** **LAW ENFORCEMENT: FUNDAMENTALS (ROP)**  
**Recommendation:** A strong interest in pursuing a career in Law Enforcement; Minimum age of 16  
**Grade Level:** 10-12 **Course Length:** Semester + additional hours  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbooks:** State-Wide Integrated Traffic Records System Collision investigations Manual, California Highway Patrol, unpublished #HPM 110.5

This course covers many aspects of the Administration of Justice, including criminal law, criminal evidence, patrol procedures, criminal investigations, weaponless defense, and the many occupations available in the field. Students will use C.A.R.S. (Calif. Automated Reporting System) software which is used by the CHP for collision reporting. Several field trips are planned with visits to a detention facility, jail, shooting range, and ride-alongs being woven throughout the curriculum. Former students who are employed in this field are frequent guest speakers. Students may earn ten credits per semester. The course meets two periods per day through block scheduling. This course may be used as a basis for Senior Projects.

## **MEDICAL CAREERS PATHWAY**

Students in Serrano's Medical Careers Pathway have two or more Medical Pathway teachers in common. In addition to English, Social Science and Biology courses, all ROP health science courses are included as elective options. Coursework in the academic classes reflects a health science focus. Medical Careers Pathway students are encouraged to join HOSA (Health Occupations Students of America).

**COURSE TITLE:** **ENGLISH II**  
**Recommendation:** Students scoring Basic or above on state testing  
**Grade Level:** 10 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, plus literature texts selected in accordance with state curriculum expectations and guidelines

This college-prep course emphasizes the analysis of literature and nonfiction, and building student writing and research skills. Students will read novels, plays, short stories, essays, and newspapers, and will participate in frequent writing workshops and group projects. Course content will be based in the culture of health and medical professions, and students will complete research and writing projects related to significant issues and problems in medicine, health, and technology. All course assignments are based on the California State ELA Standards

and will prepare students for success on the California High School Exit Exam and state tests.

**COURSE TITLE:** ENGLISH III  
**Recommendation:** Students scoring Basic or above on state testing  
**Grade Level:** 11 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, core literature texts selected in accordance with state curriculum expectations and guidelines, and nonfiction pieces related to various topics in bioethics

This course is based on major American authors, their styles, and the literary trends related to American history. Students will explore all genres while working to refine their own writing skills through examination of the works of professional writers, grammar and mechanics refinement, and structural practice. Students also focus on college/career related assignments designed to prepare them for life after high school. Interdisciplinary themes will be explored in conjunction with the other Medical Pathway Teachers.

**COURSE TITLE:** ENGLISH IV  
**Recommendation:** Students scoring Basic or above on state testing  
**Grade Level:** 12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, core literature texts selected in accordance with state curriculum expectations and guidelines, and nonfiction pieces related to various topics in bioethics

This course is designed to acquaint students with a wide spectrum of literature from ancient to modern with emphasis on English literary development. Emphasis in this course will be on literary analysis of author style and techniques for communicating themes and characterizations. Students will be exposed to a wide variety of literary genres with emphasis on rhetorical analysis of nonfiction texts. Students will continue to develop their writing skills. One focus of this course is to prepare students to be successful in college or in the workplace. Interdisciplinary themes will be explored in conjunction with the other Medical Pathway Teachers.

**COURSE TITLE:** UNITED STATES HISTORY  
**Grade Level:** 11 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** America: Pathways to the Present, Modern American History, Prentice Hall, 2007

This course will focus on the history of American ideals, institutions, and values. The course will trace its European beginnings to the present. Major events, episodes, issues, and people will be studied. The influence of geography on American history will be explored in depth. This course will include a special emphasis on medical advances throughout history and looking at the changes that led to those advances. A cross-curricular project will be completed in conjunction with the Medical Pathway English III class.

**COURSE TITLE:** AMERICAN GOVERNMENT  
**Grade Level:** 12 **Course Length:** Semester  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Magruder's American Government, Calif. Edition, Prentice Hall, 2006

This course is designed to provide students with a comprehensive understanding of governmental institutions. Students will explore the responsibilities of government from the local to the national level. The political process will also be studied, specifically in regards to the election process. Issues of universal health care, government regulation of food safety, and disease control are additional topics covered in class.

**COURSE TITLE:** ECONOMICS  
**Grade level:** 12 **Course Length:** Semester **NCAA Approved:** Yes  
**University Prep Program:** Yes **A-G Requirement:** Yes (Meets University Elective Requirement Only)  
**Textbook:** Economics: Principles in Action, Calif. Edition. Prentice Hall, 2007

This survey course will allow students to study and understand concepts of economics and economic theory. Students will solve economic problems through active participation in analysis and application exercises. Both macroeconomics and microeconomics will be analyzed. Students will complete a personal financial project that relates to their chosen profession in the health care field.

**COURSE TITLE:** **BIOLOGY I**  
**Grade Level:** 10-11 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Biology, Prentice Hall, 2006

This is a standard first year course in biology. Emphasis is placed on the cellular level of organization of living organisms and is laboratory-oriented. Topics covered include chemical/physical nature of life, cellular biology, principles of heredity, biotechnology, evolution, ecology, anatomy, and physiology. Medical pathway student will build a reference folder for future class assignments in English and History. The objectives of the course are based on the California State Standards for Biology. Students who successfully complete this course with a "C" or better may not enroll in Agricultural Biology which covers similar material. Students in grades 10 and 11 will take the Biology CST, and students in grade 10 will take the NCLB Science test in the spring.

**COURSE TITLE:** **ANATOMY AND PHYSIOLOGY (Kinesiology/Sports Medicine)/ Biology II)**

**Recommendation:** Algebra I or concurrent enrollment. Grade of "B" or better in Biology.  
 Students in 11<sup>th</sup> grade may enroll following conference/approval of Instructor at kgoodnoughshs@yahoo.com.  
**Grade Level:** 11-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Essentials of Human Anatomy and Physiology, Pearson, 2006

This is a college preparatory course dealing with the human body from both a morphological and physiological viewpoint for students in the Medical Pathway. This course will also include the mechanics of injury causes as well as overviews of common athletic injuries. The course is laboratory-oriented, with dissection of a cat for purposes of comparison to human tissues and systems. In addition, lectures, labs, demonstrations, and discussions concerning functional activities of the living body in terms of both cellular and systemic functions will be conducted. The objectives of this course are based on the California State Standards for Biology. Many of the standards that were covered extensively during the sophomore year biology courses are reviewed and reinforced with emphasis on application of those standards. Students in grade 11 will take the Biology CST in the spring.

**COURSE TITLE:** **MEDICAL TERMINOLOGY (ROP)**

**Recommendation:** Minimum age of 15 or Teacher Recommendation and Career Plan  
**Grade Level:** 10-12 **Course Length:** Semester  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** Exploring Medical Language, 5<sup>th</sup> Edition, Mosby, 2002

The class can be taken by anyone interested in a career in the health field. By the end of the course students will be able to identify, spell, pronounce and define root words, prefixes and suffixes and common abbreviations. All terms will be applied to the human body, its regions, organs, and systems. Basic disease process and pathology will complete the curriculum. First Aid Certification included. This course is articulated with Victor Valley College for Medical Terminology credit. This course is required as the first class for all students wanting to take a sequence of medical classes. Course is offered during the regular school day or as an evening course.

**COURSE TITLE:** **INTRO TO HEALTH CAREERS (ROP)**

**Recommendation:** Minimum age of 15 or Teacher Recommendation and Career Plan  
**Grade Level:** 10-12 **Course Length:** Semester  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

This course is designed for students interested in exploring a career in the health care industry. Students research a variety of careers in the health care field. Instruction includes the concepts of group dynamics, conflict resolution and negotiation, legal and ethical responsibility, safety, first aid, and standard precautions. Related mathematics and language arts standards are reinforced. Students complete certification in AED (Automated External Defibrillation). This course may be used as a basis for Senior Projects.

**COURSE TITLE:** **EMERGENCY FIRST RESPONDER (ROP)**

**Recommendation:** Medical Terminology, Fire Science, Biology; Minimum age of 16  
**Grade Level:** 11-12 **Course Length:** Semester  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** 1<sup>st</sup> Responder, Jones & Bartlett Publishers, 2001

The course provides students with the knowledge and skills to take appropriate action as the first responder to an emergency scene. The course provides instruction in systems and structures of surface anatomy and key

principles of physiology, including the basic functions of the nervous system, cardiovascular system, and the respiratory system. Students will perform an assessment of a patient's vital functions. Certified First Responder (CFR) is a required skill for entry-level fire fighter positions. Upon successful completion of this course, students will be eligible to receive a National Safety Council First Responder Card and American Red Cross Card, CPR (Cardiopulmonary Resuscitation) for the Professional. This course may be used as a basis for Senior Projects.

**COURSE TITLE:** **EKG MONITOR TECHNICIAN (ROP)**  
**Recommendation:** Passed or currently taking Medical Terminology; Minimum age of 16  
**Grade Level:** 11-12 **Course Length:** Semester (2<sup>nd</sup> Semester only)  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** EKG Plain and Simple, K. Ellis, 2007

This course is designed to train students to set up and operate a 12 lead EKG and attach a Holter monitor. Instruction is provided in the anatomy and physiology of the heart and terminology common to the cardiovascular system. Students are trained to interpret heart rate, basic rhythm strips, rhythm abnormalities, heart blocks, hypertrophy, infarction, and emergency situations that require immediate action. This course may be used as a basis for Senior Projects.

**COURSE TITLE:** **MEDICAL ASSISTANT – FRONT OFFICE (ROP)**  
**Prerequisite:** Medical Terminology (can take concurrently); Minimum age of 16  
**Grade Level:** 11-12, **Course Length:** One Year + additional hours  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

This course provides the basic skills necessary for employment in a doctor's office. Front office operations include telephone techniques, appointment scheduling, receptionist duties, filing and billing. Additional time during second semester will be used to place students in local medical offices. CPR Adult Certification is included. Up to 10 credits can be earned in the second semester. This course may be used as a basis for Senior Projects.

**COURSE TITLE:** **MEDICAL ASSISTANT – BACK OFFICE (ROP)**  
**Prerequisite:** Medical Terminology (can take concurrently); Minimum age of 16  
**Recommendation:** Completion of Biology I with a "C" or better  
**Grade Level:** 10-12 **Course Length:** One Year + additional hours  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

Students receive classroom and on-the-job experiences for employment as a Medical Assistant. Students perform clinical tasks, patient preparation, laboratory procedures, and assist the physician. Back office preparation includes: room setup, laboratory procedures, chart writing, safety, and sanitation. During the second semester, students will be placed in a medical office for experience related to course competencies. CPR Infant and Child Certification are included. Total of 15 credits for one full year can be earned. This course may be used as a basis for Senior Projects.

**COURSE TITLE:** **MEDICAL INSURANCE BILLING (ROP)**  
**Recommendation:** Minimum age of 16  
**Grade Level:** 11-12 **Course Length:** Summer School  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

Students receive instruction in medical office insurance billing procedures, including patient financial records, computerized billing, CPT-4 and ICD-9 coding, collection procedures, identifying and billing various insurance plans (group, PPO, HMO, IPA, federal, state, and worker's compensation. Students will utilize Medisoft medical billing software. The course is designed for 125 hours and is taught during the summer. This course is articulated with Victor Valley College for Medical Billing.

**COURSE TITLE:** **PERSONAL FITNESS TRAINER (ROP)**  
**Recommendation:** Teacher approval; Minimum age of 16,  
Medical Pathway Anatomy and Physiology (Kinesiology/Sports Medicine)/  
Biology II  
**Grade Level:** 11-12 **Course Length:** Year + additional hours  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No  
**Textbook:** Sports Medicine Essentials, J. Clover 2001

Students will learn the skills to become qualified to pass the personal fitness/trainer certification. Basic anatomy, physiology, vital signs, first aid, CPR and nutrition are taught. Students will study personal fitness needs, and

they will design programs for clients. Students may earn 10 credits per semester through this course. This course may be used as a basis for Senior Projects.

**COURSE TITLE:** **SPORTS THERAPY AND FITNESS (ROP)**  
**Recommendation:** Medical Terminology; Minimum age of 16  
Medical Pathway Anatomy and Physiology (Kinesiology/Sports Medicine)/  
Biology II  
**Grade Level:** 11-12      **Course Length:** One Year + additional hours  
**University Prep Program:** No      **A-G Requirement:** No      **NCAA Approved:** No  
 This course uses basic anatomy and physiology knowledge toward the immediate and temporary care of injured individuals. Athletic Training is learned through training room management, service to Serrano athletes, equipment and fitting, and rehabilitative theory and exercise. Students will be assigned additional externship hours with specific athletic teams for after-school hours. Students can earn up to 10 credits per semester with the additional hours. This course may be used as a basis for Senior Projects.

**COURSE TITLE:** **VETERINARY ASSISTANT (ROP)**  
**Prerequisite:** Medical Terminology (can take concurrently); Minimum age of 16  
**Recommendation:** Agricultural Biology;  
**Grade Level:** 11-12      **Course Length:** One Year + additional hours  
**University Prep Program:** No      **A-G Requirement:** No      **NCAA Approved:** No  
**Textbooks:** Introduction to Veterinary Science, J. Lawhead, M. Baker, Thompson, 2005  
Veterinary Office Practices, R. Kehn, Thompson Learning, 2004  
Tasks for the Veterinary Assistant, by P. Pattengale, Blackwell Pub.

The course is designed to prepare students for employment as a beginning Veterinary Assistant. Students receive a foundation for entry-level employment opportunities in veterinary clinics, kennels, laboratories, shelters, and pet stores. Topics include basic veterinary medical terminology, safety, animal behavior, handling and restraint techniques, nursing techniques, laboratory procedures, nutrition, sanitation, and client service. The class is 270 hours with 90 of the hours in an externship position in a veterinary office. Up to 15 credits may be earned for the full year. This course may be used as a basis for Senior Projects.

## **PARTNERSHIP ACADEMY**

**COURSE TITLE:** **ACADEMY ENGLISH II**  
**Recommendation:** Admittance into the Partnership Academy  
**Grade Level:** 10      **Course Length:** One Year  
**University Prep Program:** Yes      **A-G Requirement:** Yes      **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, plus literature texts selected in accordance with state curriculum expectations and guidelines.

This is a college prep course in which students will explore major literary forms by reading and analyzing essays, short stories, plays, novels, and poetry. This course will emphasize the writing process, review grammar usage, and present new grammatical elements as required by California State Standards. The unique aspect of this course is that practical life exercises and fieldtrips are integrated into the standard curriculum. Further, integration with other academy courses provides meaningful class projects.

**COURSE TITLE:** **ACADEMY ENGLISH III**  
**Recommendation:** Admittance into the Partnership Academy  
**Grade Level:** 11      **Course Length:** One Year  
**University Prep Program:** Yes      **A-G Requirement:** Yes      **NCAA Approved:** Yes  
**Textbook:** Language of Literature, McDougal-Littell, 2002, plus core literature texts selected in accordance with state curriculum expectations and guidelines.

This course is based on major American authors, their styles, and the literary trends related to American history. Students will explore all genres while working to refine their own writing skills through examination of the works of professional writers, grammar and mechanics refinement, and structural practice. Students also focus on college/career related assignments designed to prepare them for life after high school. The unique aspect of this course is the use of integrated projects using all academy classes is stressed. Field trips are also provided to support the curriculum.

**COURSE TITLE:** ACADEMY ENGLISH IV  
**Recommendation:** Admittance into the Partnership Academy  
**Grade Level:** 12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** McDougal Littell Language of Literature, 2002, plus core literature texts selected in accordance with state curriculum expectations and guidelines.

This course is designed to acquaint students with a wide spectrum of literature from ancient to modern with emphasis on English literary development. Emphasis in this course will be on literary analysis of author style and techniques for communicating themes and characterizations. Students will be exposed to a wide variety of literary genres with emphasis on poetry and poetic analysis. Students will continue to develop their writing skills. One focus of this course is to prepare students to be successful in college or in the workplace. In addition, these seniors are provided with a mentor experience that is designed to prepare students to be successful in college or in the workplace. A Senior Project is also required.

**COURSE TITLE:** ACADEMY WORLD HISTORY  
**Recommendation:** Admittance into the Partnership Academy  
**Grade Level:** 10 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** pending  
**Textbook:** World History: The Modern World, Prentice Hall, 2007

This course will focus on the history of World conflicts and interactions between nations, beginning with the Renaissance and the Reformation and ending with Desert Storm and the war on terrorism.

**COURSE TITLE:** ACADEMY UNITED STATES HISTORY  
**Recommendation:** Admittance into the Partnership Academy  
**Grade Level:** 11 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** America, Pathways to the Future, Prentice Hall, 2006

This course will focus on the history of American ideals, institutions, and values. The course will trace U.S. History beginning with the Civil War, ending in the present. Major events, episodes, issues, and people will be studied. Field trips will be planned to support topics discussed in class. U.S. History is a leader in integrated projects between other Academy classes.

**COURSE TITLE:** ACADEMY AMERICAN GOVERNMENT  
**Recommendation:** Admittance into the Partnership Academy  
**Grade Level:** 12 **Course Length:** Semester  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** MacGruder's American Government, Prentice Hall, 2006

This course provides students with a comprehensive understanding of governmental institutions. Linked projects with Partnership Academy, English, and Computers III provide exploration into local, state, and national governmental levels. The political process provides relativity to current affairs and policies.

**COURSE TITLE:** ACADEMY ECONOMICS  
**Recommendation:** Admittance into the Partnership Academy  
**Grade Level:** 12 **Course Length:** Semester **NCAA Approved:** Yes  
**University Prep Program:** Yes **A-G Requirement:** Yes (Meets University Elective Requirement Only)

**Textbook:** Economics, Prentice Hall, 2006

This course gives the student an ability to understand concepts of economics and the economic theory. Students will solve economic problems through inter-departmental projects linked with technology. Analytical application practices will be featured. Macroeconomics and microeconomics will be analyzed.

**COURSE TITLE:** ACADEMY ALGEBRA 1  
**Recommendation:** Admittance into the Partnership Academy  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** Yes **A-G Requirement:** Yes **NCAA Approved:** Yes  
**Textbook:** Algebra 1, McDougall Littell, 2001

This is the basic, first-year algebra course. Content includes fundamental laws and operations on algebraic expressions, signed numbers, solving equations, fractional and quadratic equations, factoring, roots and

radicals. This is all tied together with liberal amounts of practical applications and integrated when possible into other Academy projects.

**COURSE TITLE:** ACADEMY GEOMETRY  
**Recommendation:** Admittance into the Partnership Academy  
**Grade Level:** 10-12 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** pending  
**Textbook:** Geometry, McGraw Hill, 2005

This course was designed to give students a foundational look at geometric principles and concepts. Content includes the introduction of geometric terms, applications of parallel lines and transversals, exploring R.O.P. entries of triangles and quadrilaterals, similarity of geometric figures, intermediate trigonometry, analyzing relationships between circles and their parts, area of polygons, and surface area and volume of geometric solids.

**COURSE TITLE:** ACADEMY WEB PAGE DESIGN AND BASIC COMPUTER SKILLS  
**Recommendation:** Admittance into the Partnership Academy  
**Grade Level:** 10 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

In this course students will be introduced to the Windows Operating System and network environment in the PA computer lab. They will be introduced to web page design using HTML and Macromedia Studio MX 2004 which consists of Dreamweaver, Fireworks, Freehand and Flash. They will learn how to layout and design their web page in a professional manner. Also, they will learn how to troubleshoot and solve basic computer problems. The students will also be required to write essays, type, scan and use the Internet to effectively maximize their learning in this class. Students will also learn how to operate Microsoft PowerPoint to prepare them for multimedia projects for other classes. There will be other projects and other software applications used to maximize student learning in other Partnership Academy classes.

**COURSE TITLE:** ACADEMY VIDEO AND GRAPHIC DESIGN  
**Recommendation:** Admittance into the Partnership Academy  
**Grade Level:** 11 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** No **NCAA Approved:** No

Students will be introduced to publication production. Students will design and layout publications such as: newsletters, flyers, brochures, posters and much more. We will be working close with small businesses to create publications for our community. Students will learn how to use Adobe Photoshop to edit and prepare photos for video and web design. They will also learn how to use Adobe After Effects to efficiently produce motion graphics and visual effects for film, video, multimedia, and the Web. They will use Adobe Premiere to create videos for streaming and VHS output. Students will be required to write essays, news articles, and be responsible for their grammar and punctuation's in all publications. They will also write a short script, storyboard and film and produce their work. Students will be required to learn how to operate all hardware devices in the classroom, such as; the scanner, video-editing machine, digital video camera and the digital still camera.

**COURSE TITLE:** ACADEMY VISUAL GRAPHIC ART DESIGN  
**Recommendation:** Admittance into the Partnership Academy  
**Grade Level:** 12 **Course Length:** One Year  
**University Prep Program:** No **A-G Requirement:** Yes **NCAA Approved:** No

In Visual Graphic Art Design, students will learn the fundamental elements of art and design. The ability to plan and create original works of art will be developed through research, analysis, and critiques of other computer generated art. Students will research and develop an awareness of historical context of graphic design and cultural art used in California, based on diverse times, places and cultures. Students will develop skills in artistic perception, critiquing, and use of application to design and create their own works of art. Art criticism experiences will further develop a student's ability to see how their personal life affects their interpretations of design. All experiences will focus on developing perception and application of the elements of art and principles of design through the use of computer applications. A portfolio will be generated that can be used to demonstrate their abilities will explore two-dimensional and three-dimensional real-world/business applications of computer generated design.