

# Fortuna High School



Course Catalog  
2011-2012

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**FORTUNA UNION HIGH SCHOOL DISTRICT  
2011- 2012**

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	<u>Term Ends</u>
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Ronan Collver, Clerk	2013
Ken Steele, Member	2011
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**Superintendent**  
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**Secretary**  
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**Fortuna Union High School**

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**Vice Principal**  
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Maureen Lackey

# **EXPECTED SCHOOLWIDE LEARNING RESULTS**

Fortuna Union High School will prepare its graduates to be:

## **1. COLLABORATIVE WORKERS**

who:

- a. understand the value of teamwork.
- b. apply meaningful negotiations to resolve conflicts.
- c. appreciate and understand the value of individual differences.
- d. contribute and function in various group roles.
- e. establish and use quality standards.
- f. convey significant messages.
- g. receive, interpret, and use the messages of others.

## **2. SELF-DIRECTED LEARNERS**

who:

- a. effectively identify, organize, plan and allocate resources.
- b. understand and utilize appropriate technology.
- c. develop lifelong strategies for learning and self-improvement.
- d. develop solutions to problems and formulate recommendations based on justifiable rationale.
- e. are aware of career options and opportunities.
- f. read, write, speak, listen and compute reflectively and critically.

## **3. COMMUNITY PARTICIPANTS**

who:

- a. possess awareness of global issues.
- b. contribute and volunteer services to the community.
- c. accept responsibility for their community.

## **4. RESPONSIBLE INDIVIDUALS**

who:

- a. appreciate and participate in diverse arts, culture, and language.
- b. establish and use quality standards.
- c. exhibit self-discipline, integrity, and self-knowledge.



# **HIGH SCHOOL GRADUATION REQUIREMENTS**

Any student passing a course with a grade of A, B, C, or D will receive 5 credits per semester. These credits apply towards meeting requirements for graduation from Fortuna Union High School. Classes are worth 5 credits each with a few exceptions (Driver Education, 2.5 credits; Health, 2.5 credits). Each student in grades 9 through 12 shall take a minimum of six courses during each semester of enrollment, including work experience and HROP.

## **ENGLISH – 40 CREDITS (4 YEARS)**

Five credits must be taken each semester.

## **PHYSICAL EDUCATION – 20 CREDITS (2 YEARS)**

All freshmen students must take P.E. 1. All sophomores must take P. E. 2

## **SOCIAL SCIENCE – 40 CREDITS (4 YEARS)**

Freshmen must take 10 credits of Social Science 1 (comprised of World Geography, Health, and Driver Education; sophomores must take 10 credits of World History; juniors must take 10 credits of U.S. History; and seniors must take 5 credits of American Government and 5 credits of Economics.

## **MATHEMATICS – 30 CREDITS (3 YEARS) (20 CREDITS needed for Class of 2012)**

Freshmen are required to take a math class. Pre-test scores and/or teacher recommendation determine initial placement. Algebra 1 is required by the California Department of Education for graduation.

## **SCIENCE – 20 CREDITS (2 YEARS)**

A student must pass 10 credits of Physical Science and 10 credits of Life Science. It is recommended that students take a science class during their freshman year. Two years of Agriculture (Ag. 1, Ag. 2, Forestry and Land Management, Ag. Resources Rural Rec.) meets the one year requirement for Life Science.

## **FINE ARTS/FOREIGN LANGUAGE – 10 CREDITS**

A student must complete 10 credits of a foreign language –OR– 10 credits of the same fine art.

## **ELECTIVES – 70 CREDITS**

**TOTAL CREDITS NEEDED TO GRADUATE: 230** (Class of 2012 Total Credits: 220)

**IN ADDITION TO THE COURSE REQUIREMENTS ABOVE,** each student will also be required to complete:

### SERVICE LEARNING REQUIREMENT

Service Learning is a project developed where students gain experience contributing and putting forth effort into our school and community. Service Learning is a REQUIREMENT for graduation. **Prior to graduation, the student will have to complete 15 hours of community service** with an agency or service-oriented group.

### CALIFORNIA HIGH SCHOOL EXIT EXAM (CAHSEE)

The state of California requires all students to score a **350 or greater** on the CAHSEE Math and English/Language Arts tests to receive a high school diploma. For more details, contact the school or log on to the California Department of Education at:  
[www.ced.ca.gov/statetests/cahsee](http://www.ced.ca.gov/statetests/cahsee).

# **FORTUNA UNION HIGH SCHOOL**

## **Philosophy Regarding Course Selections and Schedule Changes**

The philosophy of Fortuna Union High School regarding student course selection is that all students are encouraged to pursue the most challenging courses in which they will be successful. Staying mindful of graduation requirements and requirements for college entrance, students will commit themselves to a course of study that will support them in attaining their post-high school goals. Students must put honest thought and effort into making their course selections. To avoid overcrowding and to stay within budgetary limitations, students are expected to remain in their courses for the entire year. Schedule changes will be allowed under the following conditions:

- HROP Students may transfer into HROP classes.
- Work Experience students may transfer into work experience if they have a job and are willing to comply with work experience rules. Schedule changes needed to accommodate the work experience will be made if space is available.
- Student Assistants, based on a teacher request, may change periods or sign up as an assistant providing there are openings and no required classes are dropped.
- Level changes, same department, based on teacher recommendation and objective evidence, a class level may be changed at any time, with the opportunity to earn the full 5 units of credit in the new class. A parent / teacher / counselor / student conference must first take place. The current grade in the class will transfer to the new class and may be taken into consideration when determining final grade.
- Students may change their classes if they have an Individual Educational Plan (IEP) on file.

### **OTHER SCHEDULE CHANGE POLICIES:**

- Students may change their course selections within the last week of the current semester and the first week of the new semester.
- From the 2<sup>nd</sup> week to the 9<sup>th</sup> week, students may initiate a change in their schedule only for **SERIOUS AND COMPELLING ACADEMIC REASONS. AFTER A PARENT / TEACHER / STUDENT CONFERENCE HAS TAKEN PLACE.** The full five (5) credits may still be earned in the new class.
- From the 9<sup>th</sup> week until the end of the semester, students will not be allowed to change their schedules.

## **HONORS COURSES**

Certain courses have been designated as honors-level courses. These courses have distinctive features in terms of extended content and additional workload that sets them apart from regular college prep courses. Fortuna High offers honors-level courses in English, Chemistry and Political Science. Honors-level students will receive an additional grade point upon GPA calculation. There is a difference between Honors courses and AP courses. Although both courses are rigorous and can give the extra grade point in the GPA calculation, AP courses follow the College Board AP curriculum and the main focus is to prepare students for the AP tests. Honors courses, on the other hand, do not require a test and the curriculum is developed by the teacher.

### **HONORS POLICY for FUHS Students attending College of the Redwoods**



In order to receive Honors credit for a course taken at College of the Redwoods, the following criteria must be met:

1. The CR course number must be numbered from 1 – 99
2. The CR course must be CSU and UC transferrable
3. Each student will be responsible for providing FUHS with the CR transcript.

The CR course must be academic, i.e., Social Science, English, Math, Lab Science, Foreign Language (no Fine Art).

A maximum of 4 CR courses may be given Honors credit at FUHS for any one student.

## **ADVANCED PLACEMENT (AP) COURSES**

Advanced Placement (AP) courses are rigorous college-level courses based on curricula developed by the College Board. These courses are taught in high schools by high school teachers. Courses are geared towards the AP Exam, given at the end of each school year in May. Students who pass AP exams can earn college credit.

### **ADVANCED PLACEMENT (AP) COURSES OFFERED AT FORTUNA HIGH**

Calculus AB, Environmental Science, English 4A, English 3A, Spanish 3-4,  
US History, Studio Art, , Biology, Government, Art History

Because these classes involve so much time and effort, students must meet the prerequisites for each class in order to enroll. Once enrolled, students are required to maintain a "C" or better at the first semester. All students are required to take the AP test in May. AP students will receive an additional grade point upon GPA calculation. For more information, contact the AP Coordinator, Karla Austin, x3019.

## **COLLEGE OF THE REDWOODS Admission as a Minor Student**

High school students are allowed to enroll at College of the Redwoods providing they meet the CR admissions criteria. College of the Redwoods will enroll students who are under 18 years of age and who have not yet graduated from high school through its minor student admission program. Acceptance as a minor student must be granted or renewed on a term-by-term and course-by-course basis.

Minor students may be admitted if the following conditions are met:

- The student has completed the 8<sup>th</sup> grade.
- The student has met the required minimum grade point average, based upon his/her past coursework, for the intended CR coursework (3.0 GPA for academic courses; 2.0 for personal enrichment courses).
- The student is recommended for enrollment by his/her school principal.
- The student has parental or legal guardian consent to enroll.
- The student completes and signs the admission application.

Other criteria which may be required to determine the student's ability to benefit from college coursework includes:

- Completion of college skills evaluation testing.
- Completion of campus orientation and advising sessions.
- Submission of school transcript or record.

Courses may be taken for college and high school credit. Students taking courses for high school credit must request that CR send their transcript of credits to Fortuna Union High School. Each college credit earns 3.33 or high school credit.

In addition, some academic courses from College of the Redwoods may receive honors credit in calculating a student's GPA at Fortuna Union High School for which courses receive the extra grade point. (See previous page for more information)

**College classes are to be taken to supplement the high school program, not supplant it.**

CSU Bakersfield  
 CSU Dominguez Hills  
 Chico State  
 Fresno State  
 CSU Fullerton  
 CSU Hayward  
 Humboldt State  
 CSU Long Beach  
 CSU Los Angeles  
 Cal Maritime Academy  
 CSU Monterey Bay  
 CSU Northridge  
 CAL POLY Pomona  
 Sacramento State  
 CSU San Bernardino  
 San Diego State  
 San Francisco State  
 San Jose State  
 CAL POLY San Luis Obispo  
 CSU San Marcos  
 Sonoma State  
 CSU Stanislaus  
 CSU Channel Islands

## FORTUNA UNION HIGH SCHOOL

### Courses Meeting the Requirements for Admission to California State University

- a. **HISTORY (2 years)**
  - World Geography
  - World History
  - US History, US History (AP)
  - American Government / Economics (P)
  - Political Science (H)
- b. **ENGLISH (4 years)**
  - English 1, 2
  - English B (2, 3, 4)
  - English A (3, 4) AP
- c. **MATHEMATICS (3 years)**
  - Algebra 1
  - Geometry
  - Algebra 2
  - Pre-Calculus (H)
  - Calculus AB (AP)
  - Statistics
- d. **LAB SCIENCE (1 yr. Life Science & 1 yr. Physical Science)**
  - Biology (P), Biology (AP)
  - Agriculture Biology (P)
  - Anatomy (P)
  - Chemistry (P)
  - Chemistry (H)
  - Physics (AP)
  - Environmental Science (AP)
- e. **FOREIGN LANGUAGE (2 years)**
  - Spanish 1, 2, 3, 4
  - Spanish 3 (AP), Spanish 4 (AP)
- f. **VISUAL AND PERFORMING ARTS (1 YEAR)**

Ceramics 1, 2, 3, 4	Camerada Singers
Drawing 1	Choir
Drawing and Painting 2-3-4	Symphonic Band
Photography and Design 1,2 3, 4	Theater Arts
Studio Art (AP)	Floral Design
Digital/Visual Design (Pending UC/CSU Approval)	

**g. ELECTIVES (1year)**

\*\*\* All courses selected from all departments.

English, advanced mathematics, social science, history, lab science, foreign language, visual and performing arts, Agriculture 1, Agriculture 2, Agriculture Business, Psychology

\*In order for a course to count towards the subject requirement, students must earn a grade of "C" better.

\*\*Students planning to attend UC/CSU must take the SAT 1 Reasoning Test or ACT at the end of their junior year and again at the beginning of their senior year, and also meet the GPA and test score requirements (refer to the eligibility index)

For more information: [www.csumentor.edu](http://www.csumentor.edu)

### Planning to attend?

Sample Class Schedule:

#### FRESHMAN YEAR

English 1  
 Physical Science or Biology  
 Physical Education  
 Visual/Performance Arts  
 or Spanish 1  
 World Geography

#### SOPHOMORE YEAR

English 2  
 Algebra 1 or Geometry or Algebra 2  
 Biology or Chemistry or Anatomy  
 Physical Education  
 Visual/Performing Arts  
 or Spanish 1 or 2  
 World History

#### JUNIOR YEAR

English 3B, or 3B (AP)  
 Geometry or Algebra 2 or  
 Precalculus (H)  
 Spanish 2 or 3  
 US History or US History (AP)  
 Chemistry or Chemistry (H) or  
 Anatomy or Physics  
 Elective

#### SENIOR YEAR

English 4B or 4A (AP)  
 Algebra 2 or Precalculus (H) or  
 Statistics or Calculus (AP)  
 American Government/Economics (AP)  
 Physics (AP) or Chemistry (H) or  
 Environmental Science (AP)  
 or Anatomy  
 Elective (extra language)  
 Elective (extra science)  
 Elective

#### Minimum Eligibility Index

Graduates of California high schools or residents of California as defined for tuition purposes, must have a minimum eligibility index of 2900 using the SAT or 694 using the ACT. Nonresidents who are not graduates of a California high school must have a minimum index of 3502 using the SAT or 842 using the ACT.

The CSU eligibility index is calculated by using either the SAT or ACT as follows:

- > SAT (scores in math and critical reading) + (800 x high school GPA)
- > (10 x ACT composite score without the writing score) + (200 x high school GPA)

UC Berkeley  
 UC Davis  
 UC Irvine  
 UC Los Angeles  
 UC Riverside  
 UC San Francisco  
 UC San Diego  
 UC Santa Cruz  
 UC Santa Barbara  
 UC Merced

## Planning to attend?

Sample Class Schedule:

### FRESHMAN YEAR

English 1  
 Algebra 1 or Geometry  
 Physical Science or Biology  
 Physical Education  
 Visual/Performance Arts  
 or Spanish  
 World Geography

### SOPHOMORE YEAR

English 2 or English 2 (H)  
 Geometry or Algebra 2  
 Biology or Anatomy  
 or Chemistry  
 Physical Education  
 Visual/Performing Arts  
 or Spanish  
 World History

### JUNIOR YEAR

English 3B (H) or 3A (AP)  
 Algebra 2 or Precalculus (H)  
 or Statistics  
 Spanish 2 or 3  
 US History or US History (AP)  
 UC approved Elective or  
 Chemistry or Anatomy

### SENIOR YEAR

English 4B or 4A (AP)  
 Precalculus (H) or Statistics  
 Or Calculus (AP)  
 American Government/Economics (AP)  
 Physics (AP) or Chemistry (H) or  
 Environmental Science (AP)  
 Spanish 3 or 4 (AP)  
 UC approved Elective

## FORTUNA UNION HIGH SCHOOL

### Courses Meeting the Requirements for Admission to University of California

- a. **HISTORY (2 years)**  
 World Geography  
 World History  
 US History, US History (AP)  
 American Government / Economics (P)  
 Political Science (H)

- b. **ENGLISH (4 years)**  
 English 1  
 English 2  
 English 3, English 3A (AP)  
 English 4, English 4A (AP)

- c. **MATHEMATICS (3 years)**  
 Years recommended – 4  
 Algebra 1  
 Geometry  
 Algebra 2  
 Pre-Calculus (H)  
 Calculus AB (AP)  
 Statistics

- d. **LAB SCIENCE (2 years)**  
 Years recommended – 3  
 Biology (P), Biology (AP)  
 Agriculture Biology (P)  
 Anatomy (P)  
 Chemistry (P)  
 Chemistry (H)  
 Physics (AP)  
 Environmental Science (AP)

- e. **FOREIGN LANGUAGE (2 years)**  
 Years recommended – 3  
 Spanish 1, 2, 3, 4  
 Spanish 3 (AP), Spanish 4 (AP)

- f. **VISUAL AND PERFORMING ARTS (1 YEAR)**
- |   |                  |
|---|------------------|
| Ceramics  | Floral Design    |
| Photography and Design 1                                | Jazz Express     |
| Advanced Photography and Design<br>(Photo/Design 2-3-4) | Show Choir       |
| Drawing 1   | Symphonic Band   |
| Drawing and Painting 2-3-4                              | Camerada Singers |
| Digital/Visual Design (Pending UC/CSU Approval)         | Studio Art (AP)  |

- g. **ELECTIVES (1year)**  
 \*\*\* All courses listed under a-g, except the math courses, plus the following:  
 Psychology  
 Symphonic Band  
 Agriculture 1, Agriculture 2  
 Agriculture Business  
 Psychology

For more information: [www.ucop.edu/pathways](http://www.ucop.edu/pathways)



# Are you eligible for UC?

To be eligible to attend the University of California, you must:

- Complete a specific set of 15 college prep courses (known as the "a-g" courses) with at least a 3.0 GPA
- Take either the new SAT Reasoning Test OR the ACT with its writing exam, AND 2 SAT Subject Tests in two different subject areas (e.g., science and literature)

The grades you earn in your "a-g" courses, along with your test scores, are combined in the Eligibility Index that helps determine your UC eligibility.

ACT Score	SAT Score	UC Score	ACT Score	SAT Score	UC Score
36	800	100		480	48
	790	98	20	480	47
	780	97		470	46
	770	95	19	460	43
34	760	93		450	42
	750	92	18	440	40
33	740	90		430	38
	730	88	17	420	37
32	720	87		410	35
	710	85	16	400	33
31	700	83		390	32
	690	82	15	380	30
30	680	80		370	28
	670	78	14	360	27
29	660	77		350	25
	650	75	13	340	23
28	640	73		330	22
	630	72	12	320	20
27	620	70		310	18
	610	68	11	300	17
26	600	67		290	15
	590	65	10	280	13
25	580	63		270	12
	570	62	9	260	10
24	560	60		250	8
	550	58	8	240	7
23	540	57		230	5
	530	55	7	220	3
22	520	53		210	2
	510	52	1-6	200	0
21	500	50			

To find out whether you are eligible, follow these steps:

## 1. Convert your ACT or SAT scores to UC Scores.\*

Use the translation table at left to find the equivalent "UC Score" for each of your ACT or SAT scores. Then fill in one or both of the charts below to calculate your converted total score.

ACT	ACT Score	UC Score
Reading		
Science		
Math		
UC Score Subtotal		
UC Score Subtotal x (.667) <small>ROUND UP .5 AND ABOVE</small>		1
Eng./Writing		2
Converted ACT Total		(1+2)

SAT	SAT Score	UC Score
Reading		1
Math		2
Writing		3
Converted SAT Total		(1+2+3)

Enter your highest converted ACT or SAT total  A

## 2. Convert your two highest SAT Subject Test scores to UC Scores.

Use the translation table at left. Remember, your test scores must be from two different subject areas.

Enter your best SAT Subject Test score   B

Enter your second-best SAT Subject Test score   C

## 3. Add all three converted scores (A+B+C) to get your UC SCORE TOTAL

## 4. Find your GPA\*\* in the Eligibility Index at left.

If your UC Score Total meets or exceeds the minimum score shown for your GPA range, you meet the Scholarship Requirement for UC eligibility.

\*If you took both the ACT and SAT or if you took either exam more than once, compute your UC Score for each sitting to ensure you've identified your best result. Note that you cannot mix and match scores from separate test dates.

\*\*UC calculates your preliminary GPA based on the grades earned in the "a-g" courses taken in the 10th & 11th grades.

Minimum GPA = 3.0	
CALIFORNIA RESIDENTS	
"A-G" GPA	UC Score Total
3.00 - 3.04	223
3.05 - 3.09	210
3.10 - 3.14	198
3.15 - 3.19	187
3.20 - 3.24	175
3.25 - 3.29	165
3.30 - 3.34	157
3.35 - 3.39	152
3.40 - 3.44	147
3.45 & above	143
NON-CALIFORNIA RESIDENTS	
"A-G" GPA	UC Score Total
3.40 - 3.44	147
3.45 & above	143

# **AGRICULTURE DEPARTMENT**

**NOTE:** Two years of Agriculture 1, Agriculture 2, Forestry Land Management, or Ag Resources/Rural Recreation may be taken to meet the one year of Life Science required for graduation. Agriculture 1, Agriculture 2 and Agriculture Business are all UC approved electives.

## **AGRICULTURE 1 (Introduction to Agriculture)**

This course is designed to meet UC requirements and to teach introductory students the definition of agriculture and the varying aspects of the agriculture industry. Using a hands-on, student-centered approach of study, students will be introduced to general and specific knowledge of skills and understanding in the following units of study: Ag Business, Natural Resources, Soil Science, Plant Science, Animal Science, Ag Mechanics and Ag Careers. In addition to this, students will be introduced to the Future Farmers of America (FFA) program and the Supervised Agricultural Experience program where first year students will create an acceptable plan for an individual agriculture project to be carried out through the year.

## **AGRICULTURE 2**

**Prerequisite:** Successful completion of Agriculture 1 and must have an acceptable on-going individual Supervised Agricultural Experience Program in Agriculture in operation, complete with individual project records.

This course is for those interested in pursuing training in an instructional program designed to prepare students for occupations in the production of food and fiber, or for occupations in ornamental horticulture. The course will also develop leadership skills, citizenship and involvement in Supervised Agricultural experience as well as introduce you to or expand your knowledge of Future Farmers of America (FFA). You will develop basic skills and knowledge in the area of plant science including discussions/hands-on experience working with soils, irrigation systems and greenhouse usage to name a few. Other instructional units are designed to provide moderately in-depth studies of the production, husbandry and management of several species of farm livestock (beef cattle, dairy cattle, sheep, swine and horses).

## **AGRICULTURE MATHEMATICS (11<sup>th</sup> - 12<sup>th</sup> Graders)**

**Prerequisite:** Successful completion of Agriculture 1 and Algebra 1

The primary intent of Agriculture Mathematics is to provide students with a relevant review of basic arithmetic, general statistics, applied geometry and algebra concepts to prepare students for mathematics involved in agriculture careers. The application portion of the class uses current and realistic agricultural situations similar to those encountered by professionals engaged in agriculturally related occupations and industries. This course meets the 3<sup>rd</sup> year math requirement of Fortuna High School.

## **AGRICULTURE BIOLOGY (10<sup>th</sup> -12<sup>th</sup> Graders)**

**Prerequisite:** Agriculture 1

This class is for students who plan to enter a college and/or university with a major in agriculture. The class is an elective course that meets life science graduation requirements as well as University of California one-year laboratory science admission requirements. This course emphasizes the biological principles of the following areas: molecular and cellular aspects of living things, structure and function of agricultural plants and animals, genetics, physiology, plant and animal behavior. Students are required to participate in the FFA leadership organization and to have an a-g related project outside of class (SAE).

## **AGRICULTURE BUSINESS (10<sup>th</sup> – 12<sup>th</sup> Graders)**

This course is designed for advanced study of agriculture business opportunities and economics for students with interest in agriculture business. Through the course, the student will understand and apply basic economic principals as they relate to individual consumers, production agriculture, and agri-business management. Life skills such as resumes, job applications, interview skills, applications and portfolio will be included. Other projects include creating a business plan, completing a career research project and participating in an agriculture issues debate.

## **AGRICULTURE MECHANICS**

**Prerequisite:** Successful completion of Agriculture 1 and have in operation an acceptable Supervised Occupational Experience Program in agriculture complete with individual project records. Students must be willing to pay for all materials used in constructing individual projects in the shop.

Classroom instruction and required shop practice will be combined in a manner designed to supply students

with the knowledge and skills required for entry into and successful progress in certain agricultural mechanics occupations that do not require education beyond the secondary school level. The units of instruction included in the program will provide basic skills and knowledge in safety, construction, welding, equipment operation and repair. Understanding of mechanical theory presented in class, shop safety, ability to work well with classmates, general work habits and clean-up will be emphasized. Classroom units on safety and tool identification and selection will precede in-shop activities.

### **AGRICULTURAL RESOURCES AND RURAL RECREATION**

This class will prepare you for occupations in managing agricultural resources and operating rural recreation facilities. Occupation areas include: Game Warden, Trapper, Fish and Wildlife Management, Soil conservation, Water Quality, Sewage Treatment, Erosion Control, Air Pollution, Marine Biologist, Climatologist and Engineering as related to agriculture.

Upon completion of this course, students will have been supplied with the knowledge and skills with which they can obtain jobs following high school. This course will also prepare you for advanced classes should you elect to continue your education past high school. Labs can include: camping, saddling a horse, identifying tree species, surveying local streams, soils, animal track casting and other outdoor recreational activities.

### **AGRICULTURE SKILLS AND LEADERSHIP DEVELOPMENT**

**Prerequisite:** Students must desire to be involved in a leadership officer position and/or participate on an FFA judging team.

This class is designed to service those students that wish to participate on an Agriculture/FFA judging team and/or seek an officer leadership positions in the FFA at the chapter, sectional, regional or state level. The class will focus on critical evaluation skills that may include evaluation techniques used in agricultural occupations. Such topics will include livestock, horses, dairy cattle, dairy products, forestry, meats and trees in planning and implementing chapter FFA activities including community outreach projects as well as a variety of chapter and sectional activities. Students will also be taught units in public speaking, extemporaneous speaking, communication skills, and parliamentary procedure.

### **FLORAL DESIGN (10th - 12th Graders)**

Students will learn artistic concepts and then apply the skills to hands on floral projects including arrangements and corsages, as well as principles of irrigation, plant selection and proper planting techniques. Students will learn to recognize balance within an arrangement, along with scale, color and depth. Portfolio development, record books, FFA and SAE are also included. This course is an elective that meets the fine art graduation requirement as well as the University of California fine art requirement for admission.

### **FORESTRY AND LAND MANAGEMENT**

This class will introduce students to wild land management techniques on both practical and scientific concepts. The students will learn to cruise timber for sales, set line for both main and spur logging roads, determine where to put skid trails and indicator plant identification, silviculture techniques, small land owner challenges, and environment and land coexistence practices.

The class will explore the concepts of how to gain the highest lumber production while striving to maintain an ecological balance for soil, wildlife and watershed. Highlights may include trips to the forest area to observe falling, skidding, hauling, setting boundaries, determining log scale and species, industry representatives with discussions and presentations of real work in Forestry and Land Management.

## **CULINARY ARTS**

### **CULINARY ARTS 1 - Beginning Foods**

This is a lab course designed to develop an understanding of basic food preparation and nutrition. Emphasis will be placed on learning to cook foods from the five food groups. Units on proper use and care of equipment, money management, safety and sanitation while cooking. A \$10 shop fee may be required for special cooking projects.

## **CULINARY ARTS 2 - Intermediate Foods**

This lab course is designed to continue nutrition and food preparation concepts learned in Beginning Foods. A \$10 shop fee may be required for special cooking projects.

## **HROP CULINARY ARTS 3 - Restaurant Occupations**

(See HROP section for the course description)



# **FINE ARTS DEPARTMENT**

## **VISUAL ARTS**

*Students enrolled in the following classes develop a strong foundation in the Arts. Classes emphasize studio production and aesthetic appreciation. Visual Art classes provide opportunities for personal skill building/development with emphasis on the creative process. Students are encouraged to produce their best work for public display and submission to art competitions.*

### **DRAWING 1**

This class is open to all students who would like to learn how to draw. The student will learn to use many different drawing mediums such as: pencil, prismacolor pencils, black and colored India inks, speedball pens, charcoal, pastels, scratch art and watercolor. Projects include but are not limited to: life drawing, still life, landscape, objects from nature, man-made objects, animals, and many other motifs (subject matter). The student will learn how the elements and principles of art are used to design their drawings. Computer programs will be used for student research and altering drawn forms. The following drawing techniques will be studied: gesture, contour, representation, cross-hatching, pointillism, and the use of color. Students will be encouraged to enter contests and exhibit their work. This class meets the Fine Arts requirement for University of California and California State University, as well as the Fine Arts requirement for high school graduation.

REQUIRED SHOP CARD FEE: \$25

### **DRAWING AND PAINTING 2-3-4**

**Prerequisite:** Grade of C or better in Drawing 1 or approval of the instructor.

This advanced art class will allow students to refine traditional drawing and painting skills using color pencil, graphite pencil, charcoal, scratch art, black felt tip pen, watercolor and acrylic paints. Various art projects will use computer programs such as Photoshop as a basis for manipulation of drawings and paintings. Students will be encouraged to work on large-scale projects and development of a portfolio with emphasis on personal areas of interest. The study of famous artists as well as area artists will be incorporated into the curriculum. This class meets the Fine Arts requirement for University of California and California State University as well as the Fine Arts requirement for high school graduation.

REQUIRED SHOP CARD FEE: \$25

### **CERAMICS 1**

In this lab-based class, students will develop ceramic skills in pinch, coil, slab, and wheel throwing. They will work with low and high fire clays and glazes. Projects include sculpture, bowls, plates, mugs, plaques, masks, mosaics, boxes, picture frames, clay containers and ceramic jewelry. Students are given a series of "free choice projects" to develop their own ideas and expressions in clay. Students will use web and library resources to complete research and plan projects. A variety of decorative glazing techniques will be learned. The class meets the Fine Arts requirement for high school graduation and the Visual and Performing Arts requirement for Cal State University and the University of California.

REQUIRED SHOP CARD FEE: \$25

## **CERAMICS 2-3-4**

**Prerequisite:** Grade of C or better in Ceramics 1

This advanced ceramics class enables students to continue to develop skills in traditional clay methods of pinch, coil, slab and wheel. New techniques will be learned and different types of design will be explored. Projects will include clay casting, underglaze, stain and majolica glazing, applied mosaics, goblets, clocks, advanced mask design, colored clay (millefiore), drape, inlay and clay jewelry. The students receive ample time to develop their individual interests in ceramics through “self-directed studies.” More emphasis will be placed on glaze application, glaze mixing and firing techniques. Students will learn to load and fire electric kilns. They’ll use digital cameras and Adobe PhotoShop to develop portfolios. The class meets the Fine Arts requirement for high school graduation and the Visual and Performing Arts requirement for California State University and the University of California. REQUIRED SHOP CARD FEE: \$25



## **PHOTOGRAPHY AND DESIGN 1**

This course covers the fundamentals of photography with an emphasis on graphic composition. Students will be introduced to both digital and traditional photography, and will learn how to develop film in the darkroom as well as how to manipulate editing software to create works of art with little or no photography experience. Products may include albums, visual stories, cards, and studio quality, matted prints. The course meets the Fine Arts requirement for high school graduation and the Visual and Performing Arts requirement for UC/CSU. REQUIRED SHOP CARD FEE: \$25

## **PHOTOGRAPHY AND DESIGN 2, 3**

Students will continue to develop their photographic and digital skills through more advanced assignments to include hand-coloring, contact printing and digital montage. The emphasis is on creating a portfolio of both digital and traditional images. Each semester, students are given time to develop their individual interests through self-directed studies. The portfolio work prepares students for the Advanced Placement course. The class meets the Fine Arts requirement for high school graduation and the Visual and Performing Arts requirement for the University of California/California State University. REQUIRED SHOP CARD FEE: \$25

## **ART HISTORY (AP)**

In preparation for the AP Art History exam, this course focuses on “understanding works of art within their historical context by examining issues such as politics, religion, patronage, gender, function, and ethnicity.” It also teaches students visual analysis of works of art and to understand works of art through both contextual and visual analysis. The course meets the Fine Arts requirement for high school graduation and the Visual and Performing Arts requirement for UC/CSU. REQUIRED LAB FEE: \$15.00

## **STUDIO ART (AP) : 2D Design, Drawing & Painting, and 3D Design Portfolios**

This yearlong course is designed for third or fourth year art students who have a strong interest in the Visual Arts. Students develop a portfolio of work that meets specific criteria in one of the three areas: Drawing and Painting, 2D Design (photography or design), or 3D Design (ceramics or sculpture). Portfolios are submitted to the AP College Board for grading in early May. If the submitted portfolio receives a grade of 3, 4, or 5, most institutions grant college credit for the course.

REQUIRED SHOP CARD FEE: \$25 (An additional fee may be charged for extra supplies)

## **PERFORMING ARTS – MUSIC**

*All music courses meet Fine Arts requirements for graduation. Performing groups perform throughout the county and in state competitions. Students have a chance to travel outside Fortuna each year on at least one major trip, usually to the Bay area or Los Angeles. Classes are available for each student’s ability from beginner to advanced. NOTE: For classes requiring musical instruments, some instruments will be available from the school for student use (\$10 deposit required); other instruments must be rented or purchased from local music stores.*

## **JAZZ BAND**

**Prerequisite:** Audition and permission from the instructor is REQUIRED.

This group is designed to allow intermediate and advanced instrumentalists to explore the realm of jazz performance in a combo setting. We will cover a variety of jazz literature ranging from 1930's swing, blues, bebop, fusion, to Latin jazz. In addition to rehearsing and performing music, students will explore the realms of music including improvisation, tone, composition, theory and history. The class meets the Fine Arts requirement for high school graduation and the Visual and Performing Arts requirement for California State University and the University of California.

## **SHOW CHOIR (Glee) - Pending**

This group is designed to give beginning/intermediate singers an opportunity to experience the genre of choral arts. We will be working on a variety of repertoire ranging from the Renaissance to 20<sup>th</sup> Century with a particular emphasis on Popular Music in a similar style to the hit Fox show "Glee". In preparation for public performance students will learn choreograph to accompany their singing and will be accompanied by a rock band. This class is pending approval of the Visual and Performing Arts requirement for California State University and the University of California.

## **FHS CHORAL ARTISTS / CAMERADA SINGERS**

**Prerequisite:** Audition and permission from the instructor is REQUIRED.

This group is designed to give advanced singers an opportunity to experience the genre of choral arts and advanced choral literature. We will be working on a variety of repertoire ranging from the Renaissance to 20<sup>th</sup> Century and more contemporary works. In addition to rehearsing and performing music, students will explore the realms of music including vocal production, tone, IPA, language, theory and history. Through the course of the year, we will focus on other details such as aesthetic response including rehearsal and concert etiquette, and responsibilities associated with a membership in a performing organization. The class meets the Fine Arts requirement for high school graduation and the Visual and Performing Arts requirement for California State University and the University of California.

## **SYMPHONIC BAND**

**Prerequisite:** Prior instrumental experience or instructor approval.

This group is designed to give instrumentalists the opportunity to explore the realm of the wind ensemble. We will cover band literature ranging from classical to the 20<sup>th</sup> Century. In the fall, the symphonic band will be the FUHS Marching Band and perform at various functions including all football games (weather permitting). In addition to rehearsing and performing music, students will explore the realms of music including improvisation, tone, composition theory and history. The class meets the Fine Arts requirement for high school graduation and the Visual and Performing Arts requirement for California State University and the University of California.

## **ORCHESTRA**

**Prerequisite:** Prior instrumental experience or instructor approval.

This group is designed to give instrumentalists the opportunity to explore the realm of the orchestra. We will cover an orchestral literature ranging from classical to the 20<sup>th</sup> Century. In addition to rehearsing and performing music, students will explore the realms of music including improvisation, tone, composition, theory and history. The class meets the Fine Arts requirement for high school graduation and the Visual and Performing Arts requirement for California State University and the University of California.

## **MUSIC TECHNOLOGY**

This class will introduce students to the uses, concepts, techniques, and terminology of computing through music applications. The students will gain experience with current hardware and software for music sequencing, notation, synthesis, and music performance practice. This year long course is also designed as an introduction to music fundamentals, notation, and theory through music technology such as MIDI and digital recording.

# **HUMBOLDT REGIONAL OCCUPATIONAL PROGRAM (HROP)**

## **HROP ACCOUNTING**

**Prerequisite:** 11<sup>th</sup> – 12<sup>th</sup> Grade and a grade of “C” or better in Algebra 1.

This course is designed to introduce students to basic accounting methods used by all businesses. These accounting principles enable students to keep suitable financial records and/or aid in the management of a business. Also, much of the material learned, such as checking accounts, payroll taxes and basic business vocabulary can be used in every day life. After accounting foundations are mastered, students will learn computerized bookkeeping via the QuickBooks accounting package used by millions of small businesses. This class is recommended for all students interested in a business career or starting their own business. This course qualifies as a third year math for graduation requirements.

## **HROP AUTOMOTIVE SERVICES**

There is a continual demand for qualified auto mechanics throughout the United States to work as a tune-up person, brake adjuster, front-end alignment person, lubrication service attendant and parts distributor. Training occurs in a modern automotive repair facility equipped with the latest diagnostic tools. This training program is hands-on with an opportunity for you to learn valuable job skills that will prepare you for automotive related jobs in the 21<sup>st</sup> century. Job placement opportunities may be available for further training.

## **HROP AUTOMOTIVE SERVICE OF EXCELLENCE (ASE) ACADEMY**

**Prerequisite:** Two years of automotive classes required and/or teacher recommendation.  
11<sup>th</sup> – 12<sup>th</sup> Grade \*\* This class meets 3 days/week until 4:45pm.

The Automotive Service Excellence (ASE) training program prepares students to develop skills in four of the ASE Certified areas: braking systems; steering/suspension; engine performance; and, electrical systems. Students will learn all aspects of becoming a professional ASE Certified Automotive Technician and will be able to take the national ASE Certification exam in these four areas. The program articulates with both private and public post-secondary programs to allow students the opportunity to work in all eight ASE certified program areas. 15 Elective credits per semester.

## **HROP BUSINESS CONNECTIONS 1**

**Prerequisite:** 10<sup>th</sup> - 12<sup>th</sup> Grade

This class, which meets daily, is for students who are interested in learning about the world of work. Students will learn how to be successful in jobs by examining current and practical work-related issues. Topics covered may be, but not limited to, Money Management, Job Search Skills, Living on Your Own, Income Tax Returns, Payroll Deductions, Human Relations, Advertising, Communications, etc. This class is also valuable for students who want a career in business or who want to start their own business. Grading for this class is determined by course-related assignments. Five credits awarded for each passing semester. Preference will be given to students with jobs.

## **HROP BUSINESS CONNECTIONS – SUPERVISED PRACTICAL EXPERIENCE**

**Prerequisite:** 11<sup>th</sup> - 12<sup>th</sup> Grade, working and concurrently enrolled in Business Connections. (16 years up)

In Supervised Practical Experience (SPE) students will apply lessons learned in the classroom to real life at a paid or non-paid job site. Students working at paid positions must work at least 10-15 hours per week to meet the SPE requirement. Grade for this class is determined by an employer evaluation. Five credits awarded for each passing semester. Must maintain a 2.0 GPA.

## **HROP MEDICAL PROFESSIONS (10<sup>th</sup> - 12<sup>th</sup> Grades)**

During this orientation class, students will receive basic instruction in skills required in any health care setting. The introductory core will provide students with an understanding of the health industry and its' various career paths, both traditional and nontraditional. Competency based areas include medical law and ethics, communications, medical terminology, medical math, body system review and pathology of disease, human growth and development including life continuum. Instruction and practice will be provided in basic skills used in most health care settings, including specific skills such as the taking of vital signs, basic patient intake skills, documentation skills, computer input and retrieval skills, as well as others. Career preparation skills will include career search as well as finding the “right” career, job seeking skills, keeping a job, professionalism, stress management and time management. The second semester of this class will include job shadowing at local medical sites.

## **HROP PUBLIC SAFETY CAREERS**

This class is designed to introduce students to the many career opportunities that exist in the field of Law Enforcement. Students will learn basic concepts of Law Enforcement and will hear from many guest speakers and may experience field trips to the Humboldt County Jail and Coroner's Office. Some students may wish to participate in the Sheriff's Explorer Program after school hours. This class will be hard-hitting and graphic and only the most mature students should consider taking this course. Preference is given to juniors and seniors as class size is limited.

## **HROP SPORTS MEDICINE (10<sup>th</sup> - 12<sup>th</sup> Grades)**

Anatomy and Physiology for Sports Medicine is intended to cover the information needed for entry into the Health/Medical fields. The main focus is homeostasis, what affects it and how our bodies react. Topics include: 1) generic cell structure and function, 2) the circulatory and respiratory system, the muscular and skeletal system, lymphatic and immune systems, digestion and nutrition, and the CNS/PNS. All units are connected to the health care system via realistic examples and exploration of disease and illness. This course meets the requirements as a Lab Science for UC purposes.

## **HROP CULINARY ARTS 3 (RESTAURANT OCCUPATIONS) - 2 Periods**

**Prerequisite:** A grade of "C" or better in Advanced Foods or approval of teacher.  
11<sup>th</sup> – 12<sup>th</sup> Grade

A combination of class work, cooking and possible internships in local restaurants will help you to prepare and establish a foundation for either immediate opportunities in the food service/hospitality industry or to further your learning in culinary programs at the college level. Some areas covered include food preparation, basic accounting and cooking math, workplace safety, communications, and foods for special diets. Examples of foods that we will make are yeast breads, fresh pasta, sauces, various foods from around the world, etc. The class will also be in charge of various catering jobs throughout the year.

# **INDUSTRIAL TECHNOLOGY DEPARTMENT**

**NOTE:** Although a grade of C or better is recommended in all advanced courses, placement must be provided for a "D" student in the area of his/her choice. The department recommends that the "D" student obtain permission from the instructor before enrolling in advanced courses.

## **AUTOMOTIVE**

### **AUTO 1**

This class is a "hands-on" program. Most of the time will be spent working on the engines and components. Students will learn skills needed to do work on his/her own car. The units of study are basic engine rebuilding, fuels and carburetion, ignition systems, batteries and generators, starter motors and controls, smog devices, brakes, and lubrication.

### **HROP AUTOMOTIVE SERVICES**

See HROP section for complete details.

## **METALS/MACHINE SHOP**

### **WELDING AND METAL FABRICATION 1**

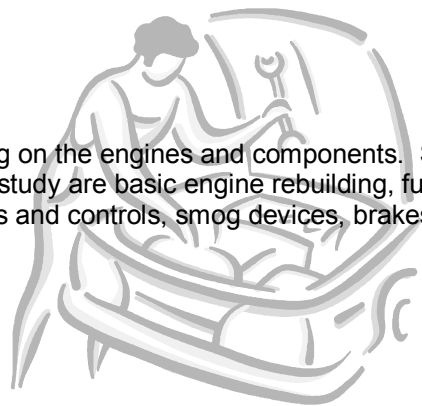
In this class Students learn the processes and technical knowledge that is used in the metals industry. Some of the topics that are covered include basic metallurgy, casting, forging, arc welding, oxyacetylene cutting/welding, machining, and sheet metal.

**REQUIRED SHOP CARD FEE: \$20. Students are REQUIRED to provide personal safety glasses.**

### **ADVANCED WELDING / METAL FABRICATION**

**Prerequisite:** Welding and Metals Fabrication 1

In this class students work on specific projects of their own design that help them sharpen the skills that they have developed in the beginning class. Some of the projects that have been done in the past include; trailers, wood



stoves, agricultural equipment, bumpers, truck racks, and go carts. Students that complete three major projects are eligible for a certificate of completion and articulate the class to College of the Redwoods for credit.

**REQUIRED SHOP CARD FEE: \$20. Students are REQUIRED to provide personal safety glasses.**

## **WOODWORKING**

Projects created by students are annually submitted in Industrial Arts competitions at the county- and statewide level, receiving many ribbons and awards. These courses are one year in length and fulfill an elective graduation requirement at Fortuna High School.

### **WOODWORKING 1**

In the first semester the students learn the proper safety and uses of the tools and equipment in the shop. Each new process is taught with a combination of project work and in class activities. Units include hand tools, glues, finishes and power tools. The second semester concentrates on specific joinery and assembly processes that build upon the knowledge that is gained in the first semester.

**REQUIRED SHOP CARD FEE: \$20 Students are REQUIRED to provide personal safety glasses.**

### **ADVANCED WOODWORKING**

**Prerequisite:** Completion of Woodworking 1

In the first semester of Advanced Woodshop students learn the basics of cabinet making through the only assigned project. After the students complete their assigned project they are required do a project of their own design and funding. Projects that have been done in the past include; desks, chairs, tables, cabinets, beds and boats. Students that complete three major projects in the shop are eligible for a certificate of completion in fine woodworking from the instructor and the ability to articulate the class for credit at College of the Redwoods.

**REQUIRED SHOP CARD FEE: \$20 Students are REQUIRED to provide personal safety glasses.**

## **LANGUAGE ARTS DEPARTMENT**

### **ENGLISH 1**

This traditional freshman English course is designed for students with a reading level of ninth grade and higher. The course covers a study of these genres: short stories, novels, poetry, plays, and non-fiction. Formal writing skills progress from paragraph structure to the expository essay and creative writing skills focus on autobiography and poetry. Speech assignments vary from the informal to the formal presentation. Individual and group tasks are assigned as well. Homework is routinely required for passing this course.

### **ENGLISH 2**

This course reviews the first year's skills and places further emphasis on sentence clarity, methods of paragraph development, and short essay writing. In addition, the course aims to develop an understanding of the meaning and structures of literature through the study of short story, novel, non-fiction, poetry, and drama. Students will also develop their research skills, using a wide variety of sources, in the preparation of projects and speeches.

### **ENGLISH 2 (H)**

**Prerequisite:** Successful completion of English 1 or a recommendation from current English teacher.

This course is designed for the high school sophomore who is ready to begin preparation for college entry level work. The curriculum will focus on high level learning and the opportunity to acquire a deep understanding of the skills, habit of mind, and concepts needed to succeed in college. In addition to Greek drama, extensive study of informational text, and a wide variety of novels, students will study expository writing, written conventions, and explore multiple writing strategies.

### **GLOBAL STUDIES (Sophomore Only)**

The Global Studies program is a dynamic integration of World History, World Literature, and current global issues and events. It is a back-to-back class comprising of two sections co-taught by teachers in both the English and History Departments, and students will receive both 10<sup>th</sup> Grade English credit as well as World History credit upon

successful completion of the course. In the class, students will explore both contemporary and historical global issues through literature, art, music, images, poetry, and primary sources. The course will celebrate the cultural diversity of our world while addressing historic and present-day political and social problems as well as potential solutions.

### **ENGLISH 3A (AP)**

This course is designed for the high school junior who is ready to begin work at the college entry level. The curriculum will focus on American literature, its writers and poets, and is designed to further the students' understanding of the writer's craft and their sensitivity to literature as a shared human experience. Qualified students will experience a wide variety of writing opportunities in order to hone their skills as a writer, thinker, and critic of the new millennium. This class requires that a student have their teacher's recommendation, as well as demonstrated grades, skills, and a desire to exceed in a high-level course curriculum. Students must complete and pass testing on their summer reading course requirements, as well as any other entry-level requirement into the course. All students are required to take the AP test in May. AP students will receive an additional grade point upon GPA calculation.

### **ENGLISH 3B**

**Prerequisite:** Successful completion of English 2

This course is designed for juniors who are performing at grade level or higher, and is a demanding course in terms of reading and writing. The focus of the course is primarily American literature and is designed to build on the skills students have developed in their freshmen and sophomore years. Emphasis will be placed on meeting new state requirements for reading, listening, speaking and analyzing information and literature as required. Course will emphasize grammar review, as well as honing composition skills developed in the freshman and sophomore years. This course meets the standards for the California State University system and the University of California system.

### **ENGLISH 4A (AP)**

As students carefully read works of literary merit, they practice and refine their skills and reach a new level of maturity in their writing and they develop their ability to analyze, write about and interpret literature. This college-level class prepares students to take the AP English Literature and Compositions exam and other college-level English and writing courses and meets the standards for the California State University system and the University of California system. All students are required to take the AP test in May. AP students will receive an additional grade point upon GPA calculation.

### **ENGLISH 4B**

This course is designed to prepare students for reading and writing in many contexts with particular emphasis on preparation for college. The course emphasizes reflection and revision as the primary means of improving writing. Readings include expository text similar to those students are commonly assigned in college with an emphasis on media literacy. This course meets the standards for the California State University system and the University of California system.

## **FOREIGN LANGUAGES**

### **EL ESPAÑOL PARA HABLANTES NATIVOS 1**

Grados: 9th – 11th

Español para hablantes nativos asume que el estudiante es capaz de hablar y entender el español hablado, y así que acentúa la estructura y el uso del español formal. Los estudiantes en esta clase estudiarán de escribir la gramática y práctica, comenzando con oraciones simples y después a párrafos más formales, a los ensayos, y a papeles de investigación. Incluye también el desarrollo de leer y aumentar su vocabulario. Una apreciación de la cultura, de las costumbres, y de la historia de los países que hablan el español se proporcionará.

### **SPANISH FOR NATIVE SPEAKERS 1**

Grades: 9th – 11th

Spanish for Native Speakers assumes that the student is able to speak and understand spoken Spanish and so emphasizes the structure and use of formal Spanish. The students in this class will study grammar and practice writing, beginning with sentences and moving to more formal paragraphs, essays, and research papers. It also includes reading and vocabulary development. An appreciation of the culture, customs, and history of Spanish speaking countries will be provided.

## **SPANISH 1**

Spanish 1 is an academic class designed for the highly motivated and university-bound student. Students will be required to learn to do a great deal of speaking, listening, reading and writing. Students should be extremely proficient in the English language in order to understand the grammatical concepts of the Spanish language. Testing will be done on a weekly basis and homework will be assigned each night.

## **SPANISH 2**

Spanish 2 is an academic class designed to further the students' growth in language ability and cultural understanding. The class will be taught mainly in Spanish, in addition to being an intensified study of grammatical concepts involved in useful conversations. Students can expect homework on a daily basis and testing each week.

## **SPANISH 3**

This course is an advanced level Spanish class designed for both non-native and native Spanish speakers. The course will offer additional practice in further development of fluency through vocabulary building, reading, and writing. The course will be conducted in Spanish and is designed to foster the use of critical thinking skills and to advance the development of listening, speaking, reading, and writing skills. Homework will be assigned on a daily basis.

## **SPANISH 4 (AP)**

**Prerequisite:** A grade of "A" or "B" in Spanish 3 is an essential requirement for success in this class.

The focus of the Advanced Placement course is to prepare students for taking the AP Test in Language. Students will learn to develop a high degree of competence in language skills and the interpretation of literature. Recorded speaking and tests will be required. Homework will be assigned on a daily basis.

# **MATHEMATICS DEPARTMENT**

## **ALGEBRA 1 (Freshmen Only)**

**Prerequisite:** Pre-Algebra skills **Requirement:** Scientific Calculator recommended

The algebra skills and concepts are taught at a pace to allow for adequate time and practice on each concept. Topics and concepts include: slope and slope-intercept form, solving systems of linear equations, factoring quadratics, zero product property, Pythagorean Theorem, Quadratic Formula, exponents, rational expressions, completing the square, substitution, multiplying binomials, graphing lines and parabolas, order of operations, distributive property, ratio and proportion problems, and writing and solving equations.

## **ALGEBRA 1 (10<sup>th</sup> - 12<sup>th</sup> Graders)**

**Prerequisite:** No Credit in Algebra 1 as a freshman or successfully completing Foundations Algebra.

The algebra skills and concepts are taught at a pace to allow for adequate time and practice on each concept. Topics and concepts include: slope and slope-intercept form, solving systems of linear equations, factoring quadratics, zero product property, Pythagorean Theorem, Quadratic Formula, exponents, rational expressions, completing the square, substitution, multiplying binomials, graphing lines and parabolas, order of operations, distributive property, ratio and proportion problems, and writing and solving equations.  
(Textbook and Process will be different)

## **APPLIED GEOMETRY (10<sup>th</sup> – 12<sup>th</sup> Graders Only)**

**Prerequisite:** Credit in Algebra 1

This one-year course emphasizes geometry with review of algebra skills equivalent to writing and solving equations with an emphasis on graphing. Geometry emphasis will include, trigonometry, special right triangles, Pythagorean Theorem, two and three dimensional figures. Students will learn the tools necessary to find areas, volumes and perimeter of many shapes and polygons. In addition, students will learn the properties of parallel and perpendicular lines. This class will be project based with hands on application of the standards necessary to successfully pass the California Standards Test.

## **GEOMETRY**

**Prerequisite:** Completion of Algebra 1 with a grade of “C” or better.

This one-year course is a continuation of Algebra 1, emphasizing geometry but with the same format. Students will review algebra by writing and solving equations, graphing, and ratios. Geometry emphasis will include properties of plane figures, problem solving, spatial, visualizations of three-dimensional figures and conjectures with convincing argumentation (proof).

## **AGRICULTURE MATHEMATICS**

(See Agriculture section for complete details)

## **ALGEBRA 2**

**Prerequisite:** A grade of “C” or better in Algebra 1 and Geometry.

A course extending the topics covered in Algebra 1 and Geometry, including linear and quadratic equations and functions, polynomials, analytic geometry, exponential and logarithmic functions, sequences and series, statistics and probability, and introduction to trigonometry. Upon successful completion of this course, the student will understand algebra as the study of the structure of both the real and complex number systems and be able to apply algebraic techniques to solving problems in other fields of study. Student ownership of a graphing calculator is recommended.



## **PRECALCULUS (Honors)**

**Prerequisite:** A grade of “B” or better in Algebra 2.

This course covers the study of polynomials and trigonometric functions, their inverses, graphs and applications. Also included are topics such as complex numbers, matrices, infinite series, coordinated geometry and conic sections, radicals, polar functions and graphs. Upon successful completion of this course, the student will understand the properties of periodic functions and their role in mathematics, have acquired facility in applying mathematical processes, recognize and appreciate the areas of applications of functions to business, industry, science, sports, sociology, and many other disciplines. Student ownership of a graphing calculator is essential.

## **STANDARDS/CONSUMER MATHEMATICS (11<sup>th</sup> and 12<sup>th</sup> Grades Only)**

**Prerequisite:** Passing Algebra 1 and Applied Geometry or Geometry or Instructor approval

This is an elective math course for sophomores, juniors and seniors. One component of this course covers topics from the California High School Exit Exam (CAHSEE). The other component will focus on selected topics from consumer mathematics, such as personal and family finances. This course meets one year of the high school graduation requirements but DOES NOT meet UC or CSU math requirements. Priority for this class will be given to seniors first, then juniors, then sophomores.

## **STATISTICS/PROBABILITY SYLLABUS**

**Prerequisite:** A grade of “B” or higher in Algebra 2 or a grade of “C” or higher in Pre-Calculus.

In addition students should come in with understanding of the following topics: 1) Setting up and solving word problems, 2) identifying slopes from graphs, 3) Word problems and equations, strong ability to interpret and comprehend all levels of work problems and 4) Ability to use a graphing calculator.

## **CALCULUS AB (AP)**

**Prerequisite:** A grade of “B” or better in precalculus or instructor’s permission.

This is a one-year course in introductory calculus with elementary functions. Students will make an in-depth study of functions and graphs, limits and continuity, differential calculus and integral calculus. All students are expected to participate in the AP examination in May. Most institutions offer a semester credit in calculus for a score of 3 or better on the AP exam.

## **MISCELLANEOUS ELECTIVES**

### **DIGITAL DESIGN: Foundations of Graphic Design (DATA Year 1)**

This class is a project-based class that teaches digital communication skills in the context of the graphic design Adobe Photoshop. Digital Design develops two key skill areas: Graphic Design Elements and Project Management and Collaboration.

At the completion of the course, students will become Adobe Certificate Associates through an online testing center and complete a graphic design portfolio.

### **DIGITAL DESIGN: Foundations of Web Design (DATA Year 2)**

This class is a project-based class that teaches digital communication skills in the context of the professional web design and development process, using Adobe Flash and Dreamweaver. Digital Design develops three key skill areas: Web Animation, Web Page Design and Project Management and Collaboration

At the completion of the course, students will become Adobe Certificate Associates through an online testing center and complete a web portfolio.

### **AMERICAN HISTORY THROUGH FILM**

This yearlong course will present students with the opportunity to experience American history through a unique and important medium. Films have played an integral role in both interpreting and creating American history. For each of the major historical eras of the 1900's, students will prepare for and then view relevant films. Students will study how legends and myths are created and then presented in films. Students will also analyze the ever-changing role of the hero and anti-hero (rebel). Possible films to be viewed: range from Glory to American Graffiti to Saturday Night Fever. This class does not meet FUHS history graduation requirement or college admission requirement; elective credit only.

### **PUBLICATIONS (Yearbook)**

**Prerequisite:** Approval from adviser

Publication students design and produce the school yearbook. Students develop skills in reporting, writing, graphic design, sales, organizing, photography and computers.

### **TEACHER CADETS**

**Prerequisite:** An elective course for 10<sup>th</sup> – 12<sup>th</sup> Graders

This class is designed for students interested in becoming a teacher or working with elementary school students. Students will learn about teacher conduct, strategies of teaching, colleges that offer teaching credentials, tactics to motivate students, learning styles and more. Students will be out in elementary classrooms four days a week, assisting the classroom teacher with instruction or with small groups. The remaining day will be spent in the high school classroom discussing topics, on field trips to local colleges, and/or with guest speakers.

### **STUDENT ASSISTANT**

**Prerequisite:** 11<sup>th</sup> and 12<sup>th</sup> Graders with cumulative GPA of 2.0 or better

Students may only work one period as a student assistant to a teacher or for one of the different departments on campus. Student must have teacher/supervisor's written permission and must be willing to sign an agreement of responsibilities for the position and to abide by those agreements. Those students working with the Life Skills class may be younger and may work one other period as a student assistant. See your counselor for specific details. This is a pass/fail credit course.

### **OFFICE ASSISTANT**

**Prerequisite:** 11<sup>th</sup> and 12<sup>th</sup> Graders with cumulative GPA of 2.5 or better - **With Administrative approval** -

Students will work for the administrative offices on campus. This will include performing work specific to the daily functions in each department (discipline, counseling, data processing, attendance, school district business office or for the one of the administrators). High levels of responsibility and confidentiality, as well as more specialized skills are required of the office assistant who is often expected to carry out tasks with little supervision. Students must have supervisor's written permission and must be willing to sign an agreement of responsibilities for the position and to abide by those agreements, pending administrator approval. This is a pass/fail credit course.

# **PHYSICAL EDUCATION DEPARTMENT**

**NOTE:** Students should see their instructor for a copy of the PE Department's Student Expectation Guide for specific dress code requirements and grading policy.

Students will be allowed to take two or more periods of any PE being offered. Students taking two periods of the same course, however, must have the teacher's approval. Freshmen students may only take one period of PE. PE2 may be taken simultaneously with an elective PE.

## **PHYSICAL EDUCATION 1 - Required for all Freshmen**

Each student will participate in a variety of elective team sports, individual and dual sports, physical fitness, and health-related units. Great emphasis will be placed on sportsmanship as a team member and as a spectator. Efforts will be made to instill attributes of maturity and cooperation with fair play as constant goal.

## **PHYSICAL EDUCATION 2 - Required for all Sophomores**

This course builds on knowledge gained in PE 1, emphasizing in-depth game strategies and advanced fitness components in a team sport format.

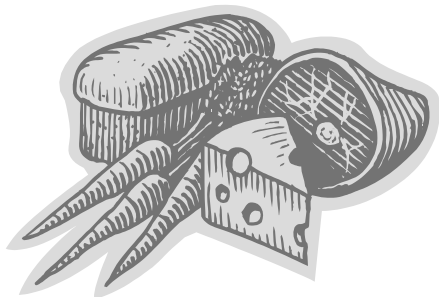
## **WEIGHT TRAINING AND CONDITIONING**

**Prerequisite:** Physical Education 1 and 2, or permission of instructor

This course is designed for heart and lung fitness, muscular strength and endurance, agility, speed and muscle tone. Activities will include weight training, aerobic conditioning (walking, jogging, etc.) and leisure activities.

## **FITNESS THROUGH EXERCISE AND DIET**

**Prerequisite:** Physical Education 1 and 2, or permission of instructor.



This course is designed to teach students different ways to maintain proper fitness through exercise and proper diet (nutrition). The class will include learning about different ways to exercise through exercise programs and individual recreational sports. Different diets will be discussed so students can better understand what type of diet that is best for them. Nutrition and knowledge of how ones body works will also be an important part of this class.

## **INDIVIDUAL & DUAL ACTIVITIES**

**Prerequisite:** Physical Education 1 and 2, or permission of instructor

A course designed to promote interest in games and activities for life. Class is based on participation and will concentrate on activities for groups of two to four people. Games and activities that may be included are calisthenics, jogging, walking, darts, golf, juggling, shuffleboard, Frisbee, tennis, table tennis, basketball, badminton, archery, and croquet.

## **ADVANCED CONDITIONING – BOYS/GIRLS**

**Prerequisite:** Physical Education 1 and 2, or permission of instructor or be a member of an interscholastic athletic team.

This course will emphasize advanced techniques in muscular strength development and cardiovascular endurance. Activities will include Olympic weight lifting, power weightlifting, plyometrics, and high intensity aerobic conditioning.



# **SCIENCE DEPARTMENT**

## **PHYSICAL SCIENCE**

This class is a non-college preparatory course which satisfies a student's physical science requirement for graduation from high school. Physical Science uses hands on activities and projects to teach the concepts of physics. We hope students will leave this course with a better understanding of their everyday world.

## **BIOLOGY**

**Prerequisite:** A "C" or better in a Physical Science or recommendation of former teachers. For freshmen this means a recommendation by their 8<sup>th</sup> grade teacher.

This yearlong course is a college preparatory class in Biology. Students will become familiar with scientific process and thinking, characteristics of living things, cell biology, biochemistry, genetics, evolution, the scope of living organisms, and the environment and ecology. This course meets high school graduation requirements for one year of life science. It also meets the "d" and "g" University of California lab science requirements.

## **AGRICULTURE BIOLOGY (10<sup>th</sup> -12<sup>th</sup> Grades)**

(See Agriculture section for complete details)

## **PHYSICS**

**Prerequisite:** Completed or enrolled in Algebra 1

This course is designed for students who are (1) college preparatory and (2) oriented toward the science/engineering professions. Subject matter includes but is not limited to: mechanics, interactions between energy and matter, sound, light, optics, electricity, magnetism, and nuclear physics. This course satisfies the "d" or "g" University of California lab science requirement.

## **ANATOMY**

**Prerequisite:** One year of Biology is required; A "B" or better in both semesters of Biology or the Biology teacher's recommendation.

This yearlong course will cover human anatomy and physiology. There are required dissections, projects and papers that students should expect to participate in. Additionally, students can expect to be tested on class materials with written and oral tests. This course meets high school graduation requirements for one year of life science. It also meets the "d" and "g" University of California lab science requirement.

## **CHEMISTRY**

**Prerequisite:** One year of Biology and Algebra 1 with grades of "C" or better.

This is a course for college bound students. It is a general introductory course, which includes the study of chemical interactions, atomic theory, properties of matter, formation of compounds, thermochemistry, solutions, reaction rates, equilibrium, acids and bases, and practical and theoretical aspects of chemistry. This course meets high school graduation requirements for physical science. It also meets the "d" or "g" University of California lab science requirements.

### **PREREQUISITES FOR HONORS , AND AP SCIENCE CLASSES:**

- Students must meet requirements stated in course descriptions.
- Students must also successfully complete the required summer work assigned when accepted into the program.
- Students must earn a semester grade of "C" or better to remain in the program.
- SEE SECTION REGARDING EXTRA GRADE POINTS AND AP TEST.

## **CHEMISTRY (H)**

**Prerequisite:** Completed one year of Biology and Algebra 1 with grades of “B” or better or passed the Algebra Competency Test.

This is a college level introductory course, which includes the study of chemical interactions, atomic theory, properties of matter, formation of compounds, thermo-chemistry, solutions, reaction rates, equilibrium, acids and bases, electrochemistry, and practical and theoretical aspects of chemistry.

## **PHYSICS (H)**

**Prerequisite:** Completed Geometry and enrolled in Algebra 2 or higher

This course is designed for students who are (1) college preparatory and (2) oriented toward the science/engineering professions. Subject matter includes but is not limited to: mechanics, interactions between energy and matter, sound, light, optics, electricity, magnetism, and nuclear physics. This course satisfies the “d” or “g” University of California lab science requirement.

## **BIOLOGY (AP)**

**Prerequisite:** A “B” or better in both semesters of Biology, and Chemistry is recommended but not required.

The AP Biology course is designed to be the equivalent of a year-long college introductory biology course. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and an appreciation of science as a process. This course will cover 8 themes of biology that are applied throughout the curriculum. These include: Science as a Process, Evolution, Energy Transfer, Continuity and Change, Relationship of Structure to Function, Regulation, Interdependence in Nature and Science, Technology, and Society. These themes will be addressed in class lectures, group discussions and laboratory experiments. This class meets high school graduation requirements for life science and “d” or “g” University of California lab science requirement.

## **ENVIRONMENTAL SCIENCE (AP)**

**Prerequisite:** Completion of chemistry and biology with a C or better (both semesters)

This is a course for college bound students. Course topics include: scientific analysis, energy and matter cycles, renewable and non-renewable resources, and human impacts on the environment. Scientific data collection and experiments will be performed on a regular basis. This course will especially benefit students interested in a career in the field of natural resources. This class meets high school graduation requirements for physical science. It also meets the “d” or “g” University of California lab science requirements.

# **SOCIAL SCIENCES DEPARTMENT**

## **HEALTH / DRIVER EDUCATION / WORLD GEOGRAPHY**

Driver Education / Health: is required by the state of California.

World Geography: is designed to provide geography literacy; includes physical geography and an exploration of demographics and culture.

## **WORLD HISTORY**

This is a two-semester course required of all sophomores. This course will provide a survey of World History with an emphasis on geography and western civilization in the 20th century according to California state content standards.



## **GLOBAL STUDIES (Sophomore Only)**

The Global Studies program is a dynamic integration of World History, World Literature, and current global issues and events. It is a back-to-back class comprising of two sections co-taught by teachers in both the English and History Departments, and students will receive both 10<sup>th</sup> Grade English credit as well as World History credit upon successful completion of the course. In the class, students will explore both contemporary and historical global issues through literature, art, music, images, poetry, and primary sources. The course will celebrate the cultural diversity of our world while addressing historic and present-day political and social problems as well as potential solutions.

## **UNITED STATES (U.S.) HISTORY**

This two-semester course is required of all juniors. This course is a survey of the economics, political, social, and cultural history of the United States from 1900 to the present. The problems and solutions of the developing nation will be discussed, as well as America's role and influence in the world in the 19<sup>th</sup> and 20<sup>th</sup> centuries.

## **UNITED STATES (U.S.) HISTORY (AP)**

**Prerequisite:** A grade of "A" or "B" in Social Science 2 and English 2A or 2B and a recommendation of AP U.S. History teacher.

This course is a college-level study of American history from colonial to present-day America. Students will have extensive college-level reading, discussions, and writing projects. All students are required to participate in the AP examination in May.



## **AMERICAN GOVERNMENT/ECONOMICS**

**American Government:** A one-semester course requirement for all senior level, including a study of federal, state, and local governments and the problems, advantages and responsibilities of a democratic society.

**Economics:** A one-semester course requirement for all seniors, designed to focus on Economics as a social science and will include both theoretical and analytical as well as a practical approach to presenting economic concepts and proposed solutions.

## **AMERICAN GOVERNMENT / ECONOMICS (AP)**

**Prerequisite:** Recommendation of US History and A-level English teachers

An in-depth study of selected topics in political science to include such things as voter behavior, political philosophy, foreign policy, state politics, current problems, and economics. Extensive research skills, oral presentations, problem solving, and discussion approach will be emphasized. This course meets American Government and Economics graduation requirements for seniors. 1<sup>st</sup> Semester: Focus on AP Government and the Advanced Placement test in May. 2<sup>nd</sup> Semester: Focus on Economics and Foreign Policy.

## **PSYCHOLOGY**

This class is designed as an elective for juniors and seniors and meets the requirements for CSU and UC as college prep elective.

The first semester is designed to introduce students to major psychological theory in a wide variety of topics: the memory, learning, stress and relaxation, the emotions, sleep and dreams, states of consciousness, abnormal behavior, mental health, and interpersonal relations.

The second semester will investigate major theories of developmental psychology, tracing human development from the prenatal period to death. Students will study the influence of heredity and environment on human behavior as people progress through childhood, adolescence, and adulthood. The primary focus will be on the state of adolescence, helping students to understand themselves and their peers in the most difficult state of development.

## **SPECIAL PROGRAMS**

### **SPECIAL EDUCATION**

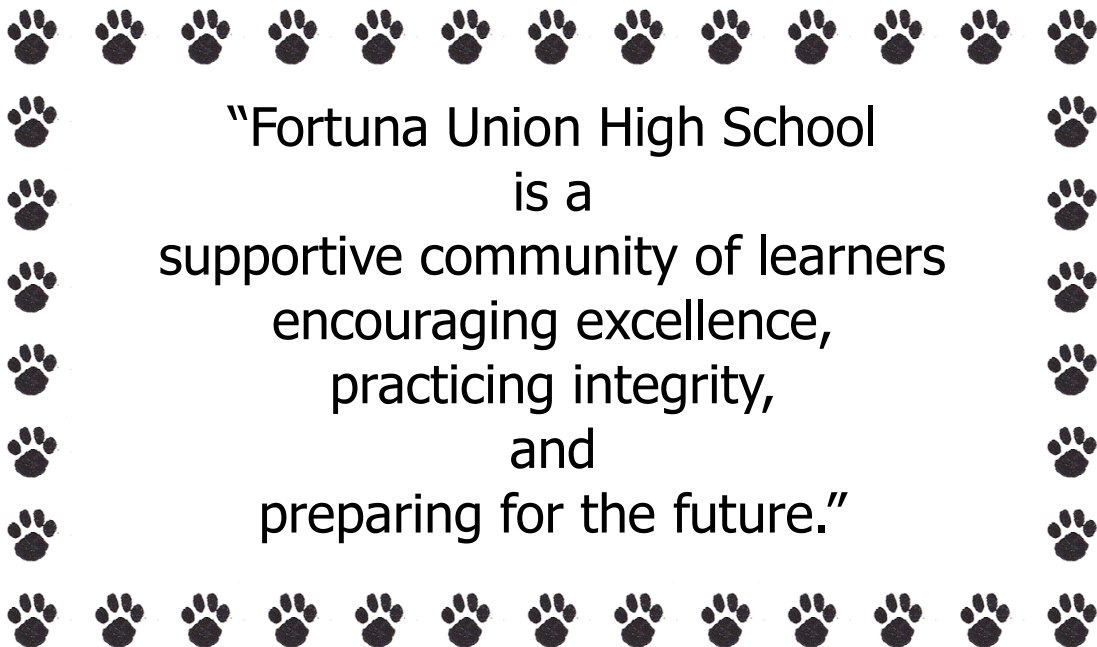
Students who participate in Special Education programs qualify under state and federal guidelines and have an Individual Education Plan (IEP). New referrals are made through the Student Study Team (SST). The Special Education classes focus on students' individual needs. Federal law dictates that education should take place in the "least restrictive environment", so students are mainstreamed into regular education classes whenever possible. In order to receive a high school diploma, students will need to meet all state and district requirements.

### **SPECIAL DAY CLASS (SDC) - 9<sup>th</sup> - 12th Grades**

The Special Day Class focuses on the needs of students who require support in most academic areas. Classes are modeled after comparable general education classes, with additional emphasis on basic skills, problem-solving, social development, and employment preparation activities.

### **RESOURCE SPECIALIST PROGRAM (RSP) - 9<sup>th</sup> - 12th Grades**

The Resource Program is designed to help students who have specific learning disabilities and need extra help in school. Students work on improving reading, writing, spelling and math skills. Extra help and tutoring is provided with regular education class assignments and homework. Courses commonly offered in RSP include English, math, algebra, pre-algebra, social studies, science, study skills, and core support, with an emphasis on literacy.



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