

# *Freedom High School*

## **COURSE CATALOG**

**2020-2021**



*Freedom High School*  
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(925) 625-5900

*[www.luhSD.net/freedom](http://www.luhSD.net/freedom)*

Liberty Union High School District does not discriminate on the basis of race, color, national origin, sex, or disability.

Revised 1/22/20

# Introduction

## **Kelly Manke, *Principal***

### **B Building**

**Julia Ferreria, *Assistant Principal***  
**Erricka Clarke, *Counselor***

### **C Building**

**Christina Lewis McGee, *Assistant Principal***  
**Sandra Tang, *Counselor***

### **D Building**

**Dr. Steve Amaro, *Assistant Principal***  
**Tracy Carroll, *Counselor***

### **E Building**

**Frank Beede, *Assistant Principal***  
**Nancy Yarbrough, *Counselor***  
**Maria Sanchez, *Counselor***

### **College & Career Center**

**Alice Cartwright, *Career Center Coordinator***  
**Destinie Ramos, *Career Center Coordinator***

## **Eric Volta, *District Superintendent***

## **Principal's Message**

Student success is best achieved by the student, parents and school staff working together to provide the best education possible. The purpose of the course catalog is to assist parents and students in the planning of the student's educational career. Students, please make your selections carefully. We encourage parents to review all contents in this catalog, as the information presented will assist you in preparing your student for academic success. As our staffing allocation is based upon students' selections, it may not be possible to deviate from your course selections at a later date.

We are very proud of the educational program at Freedom High School. Once a student enrolls at FHS, they are assigned to a building where they remain throughout high school. Each building has a designated assistant principal, a counselor and a secretary. The goal of this model is to provide consistency for students and to work collaboratively to ensure the best educational support possible is provided. This helps students connect with other students as well as staff making smaller learning communities within a larger setting.

Students may also opt to join one of three academies. The academy a student chooses should be based on their interests and aspirations after completing high school. As you will notice in the beginning of this catalog, students have a choice of a variety of academy majors. This is to guide students through choosing electives related to majors. It is our hope that by the junior year, students will choose an academy emphasis and a major that supports their career and/or personal interests. Please notice all academies address the needs of all learners from college preparatory, to other post-secondary options.

Freedom High School's 8-period schedule ensures the success of the academic program in a number of key ways:

- [1] It allows students to enroll in an average of 7 classes a year and to earn, in 4 years, total credits beyond the required 270.
- [2] It allows students the opportunity to insert a period of study hall into the school day, an academic practice common in college.
- [3] It allows students who need additional academic support the opportunity to insert a variety of support classes into the school day.
- [4] It allows students who are credit deficient the opportunity to make up credits without leaving the Freedom school community.

The faculty and staff at Freedom High School strive to provide the best possible education for our students. We all need to continue to work together to ensure students reach their full potential. In order to make this happen, daily attendance, hard work and promptness to all classes are necessary for success. We hold high expectations, both in behavior and academics, for all of our students.

Kelly Manke

# Guidelines for Choosing Courses

As you read this catalog, carefully consider the following before selecting your courses for the next year:

1. **Graduation Requirements:** select the courses you need to meet district graduation requirements
2. **College Entrance Requirements:** select courses you need to meet college entrance requirements (refer to a-g approved course list on page 3)
3. **Career Plans:** select academy courses that can help you explore possible future career options
4. **Parent Approval:** talk with parents about your choices and have them sign the parent confirmation letter (10<sup>th</sup>-12<sup>th</sup>) or course request form (9<sup>th</sup>)
5. **Teacher Recommendation:** discuss course choices with teachers and get their recommendations

## Freedom High School Class Change Policy

Student schedules may shift during the first ten days of the term, due to a balancing of classes. Requests for schedule changes will generally only be granted for the following reasons:

1. **Level Changes:** for example, Algebra 2 and Trigonometry to Algebra 2, or Spanish 3 to Spanish 2
2. **Graduation Requirements:** to makeup credits or fulfill graduation requirements
3. **College Entrance Requirements:** to meet UC/CSU entrance requirements

**FYI:** Teacher preference will not be considered when making schedule changes. Any courses dropped after three (3) weeks may result in a withdraw "F".

## Advanced Placement Courses

AP courses are college-level courses offered in high school. Students learn rigorous college-level content and skills. The courses reflect what is taught in top introductory college courses. Students take AP Exams at the end of the course, measuring their mastery of college-level work. A score of 3 or higher on an AP Exam can typically earn students college credit and/or placement into advanced courses in college. Taking AP is valued in the college admission process. AP courses are an interesting and rewarding academic experience. It is an opportunity to earn valuable credit and placement in college. 85% of selective colleges and universities report that a student's AP experience favorably impacts admission decisions. Taking AP courses tell college admission officials that students are challenging themselves and preparing for the rigors they'll encounter in their college careers.

\*Note: A student's enrollment and participation in an AP course does not ensure that he/she will pass the exam. AP credit is not accepted by all colleges/universities. You will need to consult with the institution to which your student is applying for their specific policies regarding AP credit.

## Student Support Programs

- **Free Tutoring:** Monday - Thursday 3:15 – 4:30 p.m. in B-119
- **Math Lab:** available every period for additional help with math concepts in C-119
- **Weekly Progress Reports:** available for students in building offices
- **Parent Portal:** on-line system that allows parent and students to track academic progress.  
<https://luhsd.asp.aeries.net/student>
- **Study Hall:** this course provides additional resources and allows students to work on class assignments

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# UC & CSU Minimum Subject Requirements Graduation Requirements

The following requirements must be met to receive a diploma from the  
Liberty Union High School District

<b>Course Requirements (10 Credits = 1 year)</b>		
<b>Course</b>		<b>Credits</b>
English:	Students must pass 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> and 12 <sup>th</sup> grade levels	40
Social Studies:	a. One year of World History (10 <sup>th</sup> ) b. One year of U.S. History (11 <sup>th</sup> ) c. One semester of American Government (12 <sup>th</sup> ) d. One semester of Economics (12 <sup>th</sup> )	30
Mathematics:	Students must pass three years of mathematics with completion of Algebra through Geometry.	30
Science:	a. One year of Life Science (Biology or The Living Earth) b. One year of Physical Science (Environmental Science, Chemistry in the Earth Systems or Physics in the Universe)	20
Fine Arts <b>or</b> World Language:	One year	10
Physical Education:	a. One year of 9 <sup>th</sup> grade P.E. b. One year of 10 <sup>th</sup> grade P.E.	20
Health:	Students must take one semester of health education	5
Electives:		115
Total number of credits required for graduation		270

<b>Graduation Requirements</b>
In order to graduate and earn a diploma, students must (1) complete 270 credits; and (2) complete the required course of study as noted above. Students who do not fulfill all of these requirements are not eligible to graduate from Freedom High School.

Minimum of 15 year-long college preparatory courses are required for eligibility to UC or CSU.  
Check with college of choice for specific entrance requirements.

<p style="text-align: center;"><b>University of California</b> Minimum 3.0 GPA</p>	<p style="text-align: center;"><b>California State University</b> Minimum 2.0 GPA</p>
<p><b>a. History/Social Science:</b> (2 years required) 1 year World History, 1 year U.S. History, 1 year American Government/Economics</p>	<p><b>a. History/Social Science:</b> (2 years required) 1 year World History, 1 year U.S. History, 1 year American Government/Economics</p>
<p><b>b. English:</b> (4 years required) 1 year each of 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> grade English</p>	<p><b>b. English:</b> (4 years required) 1 year each of 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> grade English</p>
<p><b>c. Mathematics:</b> (3 years required; 4 recommend) 1 year Algebra 1, 1 year Geometry, 1 year Algebra 2 or Algebra 2/Trigonometry, Statistics or AP Statistics, Pre-Calculus or AP Calculus</p>	<p><b>c. Mathematics:</b> (3 years required) 1 year Algebra 1, 1 year Geometry, 1 year Algebra 2 or Algebra 2/Trigonometry, Statistics or AP Statistics, Pre-Calculus or AP Calculus</p>
<p><b>d. Lab Science:</b> (2 years required; 3 recommended) 1 year The Living Earth, 1 year Chemistry in the Earth Systems, Physics in the Universe, or Environmental Science</p>	<p><b>d. Lab Science:</b> (2 years required) 1 year The Living Earth, 1 year Chemistry in the Earth Systems, Physics in the Universe, or Environmental Science</p>
<p><b>e. Language:</b> (2 years required; 3 recommended) 2 years of the same language [other than English]</p>	<p><b>e. Language:</b> (2 years required) 2 years of the same language [other than English]</p>
<p><b>f. Visual and Performing Arts:</b> (1 year required) 1 year of a visual or performing arts course</p>	<p><b>f. Visual and Performing Arts:</b> (1 year required) 1 year of a visual or performing arts course</p>
<p><b>g. Electives:</b> (1 year required) 1 year of an elective listed on the “a-g” course list</p>	<p><b>g. Electives:</b> (1 year required) 1 year of an elective listed on the “a-g” course list</p>

**a-Social Science – 2 years required**

Course Title:

AP American Government  
 AP U.S. History  
 AP World History  
 American Government  
 American Studies/US History  
 U.S. History  
 World Cultures and Geography  
 World History  
 World Studies/World History

**b-English – 4 years required of college preparatory English**

Course Title:

AP English 3 Language  
 AP English 4 Literature  
 American Studies/English 3  
 English 1/9  
 English 2/10  
 English 3/11  
 English 4/12  
 English Language Development 3  
 Expository Reading and Writing Course  
 Science Fiction Literature  
 World Studies/English 2

**c-Mathematics – 3 years required, 4 years recommended**

Three years of college preparatory mathematics that includes the topics covered in Elementary Algebra, Geometry and Advanced Algebra

Course Title:

Algebra 1  
 Algebra 2  
 Algebra 2 and Trigonometry  
 AP Calculus AB  
 AP Statistics  
 Geometry  
 Intensified Algebra  
 Financial Algebra  
 Pre-Calculus  
 Statistics

**d-Laboratory Science – 2 years required, 3 years recommended**

Two years of laboratory science, including two of the three fundamental knowledge in two of the following: biology, chemistry or physics

Course Title:

Anatomy and Physiology  
 AP Biology  
 AP Chemistry  
 AP Environmental Science  
 AP Physics  
 Biology/The Living Earth  
 Biotechnology  
 Chemistry/Chemistry in the Earth System  
 Environmental Science  
 Physics/Physics in the Universe

**e-Language Other than English – 2 years required, 3 years recommended**

Two years of the same language other than English

Course Title:

AP Spanish Language  
 French 1  
 French 2

French 3

French 4

**e-Language Other than English (cont.)**

Course Title:

German 1  
 German 2  
 German 3  
 German 4  
 Spanish 1  
 Spanish 2  
 Spanish 3  
 Spanish 4  
 Spanish for Spanish Speakers 1  
 Spanish for Spanish Speakers 2

**f-Visual & Performing Arts (VAPA) – 1 year required**

Course Title:

A Cappella Choir  
 Advanced Animation  
 Advanced Art  
 AP Art History  
 AP Studio Art  
 Animation  
 Beginning Art  
 Concert Band  
 Concert Choir  
 Graphic Design 1  
 Graphic Design 2  
 Intermediate Art  
 Jazz Band  
 Men's Chorus  
 Orchestra  
 Photography 1  
 Photography 2  
 ROP Digital Arts/Designs for the Web  
 ROP Advanced Video Production  
 ROP The Art of Video Production  
 Select Singers  
 Symphonic Band  
 Theater Arts I  
 Theater Arts II  
 Theater Arts III  
 Women's Chorus  
 Women's Ensemble

**g-Elective – 1 year required**

One year course from the "a-f" courses beyond those used to satisfy the requirements of the "a-f" subjects, or courses that have been approved solely in the elective area

Course Title:

Athletics Management	AP Computer Science
AP Economics	AP Human Geography
AP Psychology	AP Research
Child Development	Creative Writing
Earth Science	Economics
Exploring Computer Science	Forensic Science
Java Programing	Journalism
Jump Start to Engineering	Peace and Conflict Studies
Psychology within Society	PUSH
ROP Career w/ Children	ROP Sports Medicine 1
Speech and Debate	

## For students planning to pursue collegiate athletics

**English:**

American Studies (English)  
AP Language and Composition  
AP Literature and Composition  
Creative Writing  
English 9, 10, 11, 12  
Journalism  
Science Fiction Literature  
Speech and Debate  
World Studies (English)

**Social Science:**

American Government  
American Studies (US History)  
AP American Government  
AP Economics  
AP Human Geography  
AP Psychology  
AP U.S. History  
AP World History  
Economics  
Psychology within Society  
U.S. History  
World Cultures/Geography  
World History  
World Studies (World History)

**Mathematics:**

Algebra 1  
Algebra 2  
Algebra 2 and Trigonometry  
AP Calculus  
AP Statistics  
Calculus  
Financial Algebra (pending)  
Geometry  
Intensified Algebra  
Pre-Calculus  
Statistics

**Natural/Physical Science:**

Anatomy & Physiology  
AP Biology  
AP Chemistry  
AP Physics  
The Living Earth  
Chemistry in the Earth Systems  
Environmental Science  
Forensic Science  
Physics in the Universe  
ROP AP Environmental Science  
ROP Biotechnology

**Additional Core Courses:**

AP Art History  
AP French Language  
AP Research  
AP Seminar  
AP Spanish Language  
French 1, 2, 3, 4  
German 1, 2, 3, 4  
Spanish 1, 2, 3, 4  
Spanish for Spanish Speakers 1, 2

Please refer to the NCAA eligibility website  
for additional information  
**[WWW.NCAA.ORG/STUDENT-ATHLETES/FUTURE/ELIGIBILITY-CENTER](http://WWW.NCAA.ORG/STUDENT-ATHLETES/FUTURE/ELIGIBILITY-CENTER)**

During their sophomore year, student athletes should complete the NCAA online registration at [www.eligibilitycenter.org](http://www.eligibilitycenter.org). For ACT and SAT tests use "9999" code, this sends official scores directly to the NCAA Eligibility Center. The NCAA is made up of three classifications that are known as Divisions I, II and III. Each division creates its own rules governing recruiting and eligibility. NCAA customer service phone number is 317-917-6222.

**NOTE: APEX Online Courses are not NCAA approved**

1. **Minimum GPA raised to 2.30:** The minimum core course GPA for incoming college freshmen has been raised to 2.30.
2. **10 Core Courses by Junior Year:** Ten (10) core courses must be completed before the seventh semester; seven (7) of the 10 must be in English, math or natural/physical science.



# Four-Year Plan Samples

The following is a **SAMPLE** four-year plan meeting the minimum UC and CSU entrance requirements

9th Grade Courses	
Fall Semester	Spring Semester
1) English 9	1) English 9
2) Algebra 1/Geometry	2) Algebra 1/Geometry
3) World Cultures	3) World Cultures
4) The Living Earth	4) The Living Earth
5) Physical Education	5) Physical Education
6) Elective/Visual Arts/World Language 1	6) Elective/Visual Arts/World Language 1
7) Elective	7) Elective
8) Study Hall	

10th Grade Courses	
Fall Semester	Spring Semester
1) English 10	1) English 10
2) Geometry/Algebra 2	2) Geometry/Algebra 2
3) World History	3) World History
4) Chemistry in the Earth Systems	4) Chemistry in the Earth Systems
5) Physical Education	5) Physical Education
6) Health/Elective	6) Elective
7) Elective/Visual Arts/World Language 2	
8) Elective or Study Hall	

11th Grade Courses	
Fall Semester	Spring Semester
1) English 11 or American Studies	1) English 11 or American Studies
2) U.S. History or American Studies	2) U.S. History or American Studies
3) Algebra 2/Financial Algebra	3) Algebra 2/Financial Algebra
4) World Language 3	4) World Language 3
5) Physics in the Universe	5) Physics in the Universe
6) U.C. or CSU eligible elective	6) U.C. or CSU eligible elective
7) U.C. or CSU eligible elective	7) U.C. or CSU eligible elective
8) Study Hall	

12th Grade Courses	
Fall Semester	Spring Semester
1) English 12	1) English 12
2) Economics	2) American Gov't
3) Math Elective, Pre-Cal, Stats (Upper Level)	3) Math Elective, Pre-Cal, Stats (Upper Level)
4) World Language 4	4) World Language 4
5) Science Elective (Upper Level)	5) Science elective (Upper Level)
6) U.C. or CSU eligible elective	6) U.C. or CSU eligible elective
7) U.C. or CSU eligible elective	7) U.C. or CSU eligible elective
8) Study Hall	

The following is a **SAMPLE** four-year plan meeting the minimum Freedom High School graduation requirements

9th Grade Courses	
Fall Semester	Spring Semester
1) English 9	1) English 9
2) Algebra 1	2) Algebra 1
3) World Cultures	3) World Cultures
4) The Living Earth	4) The Living Earth
5) Physical Education	5) Physical Education
6) Elective	6) Elective
7) Elective	7) Elective
8) Study Hall	

10th Grade Courses	
Fall Semester	Spring Semester
1) English 10	1) English 10
2) Geometry	2) Geometry
3) World History	3) World History
4) Chemistry in the Earth Systems	4) Chemistry in the Earth Systems
5) Physical Education	5) Physical Education
6) Health	6) Elective
7) Elective	7) Elective
8) Study Hall	

11 <sup>th</sup> Grade Courses	
Fall Semester	Spring Semester
1) English 11 or American Studies	1) English 11 or American Studies
2) U.S. History or American Studies	2) U.S. History or American Studies
3) Algebra 2 or Applied Career Math	3) Algebra 2 or Applied Career Math
4) Visual/Performing Arts or World Language	4) Visual/Performing Arts or World Language
5) Elective	5) Elective
6) Elective	6) Elective
7) Elective	7) Elective
8) Study Hall	

12th Grade Courses	
Fall Semester	Spring Semester
1) English 12	1) English 12
2) Economics	2) American Government
3) Elective	3) Elective
4) Elective	4) Elective
5) Elective	5) Elective
6) Elective	6) Elective
7) Elective	7) Elective
8) Study Hall	

# Four-Year Plan Worksheet

Grade	Required Courses	Student Courses	Grade	Credit	Credit	Credit	Career Information and Plans
<b>9</b>  70 credits	English 9						Career Goal/Major:  Supporting Activities: ( 9-12)
	Math						
	The Living Earth						
	Physical Education						
	World Cultures & Geog						
	Elective						
	Elective						
	Study Hall						Total credits to date:
<b>10</b>  140 credits	English 10						Career Goal/Major:  Academy Emphasis:  If college bound:  Pre-ACT
	Math						
	World History						
	Chemistry in the Earth Systems						
	Physical Education						
	Elective						
	Elective						
	Study Hall/Elective						Total credits to date:
<b>11</b>  210 credits	English 11						Career Goal/Major:  Academy Emphasis:  If college bound:  PSAT SAT ACT  Subject tests - check with college
	Math/Elective						
	U.S. History						
	Elective (Physics in the Universe)						
	Elective						
	Elective						
	Elective						
	Study Hall/Elective						Total credits to date:
<b>12</b>  270 credits	English 12						Career Goal/Major:  Academy Emphasis:  SAT ACT
	Math/Elective						
	Amer Govt/Economics						
	Elective						
	Elective						
	Elective						
Post High School Goal:							Total credits to date:

# Athletic Programs

Freedom offers at least five sports for our students through each of the fall, winter, and spring seasons, and more are sure to come in the ensuing years.

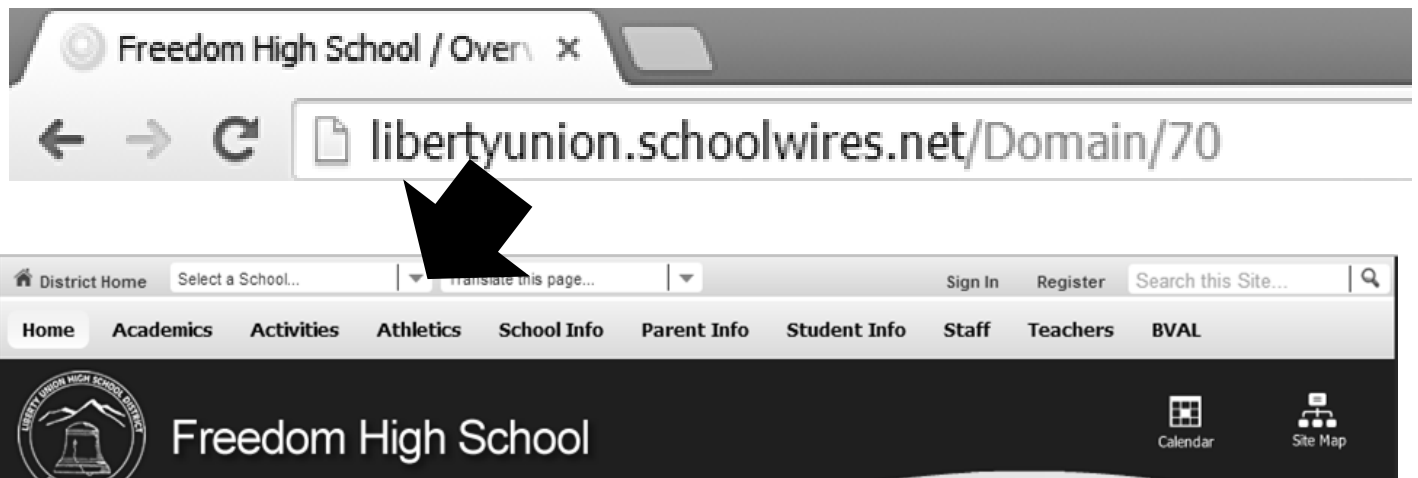
Fall [Aug-Nov]	Winter [Nov-Feb]	Spring [Feb-May]
Girls Volleyball Girls Tennis Girls Water Polo Girls Golf Cross Country Football Boys Water Polo ASB Sideline Cheer Co-ed Unified Soccer	Girls Basketball Girls Soccer Wrestling Boys Soccer Boys Basketball Rugby ASB Sideline Cheer Co-ed Unified Bowling	Softball Baseball Boys Golf Boys Tennis Boys Volleyball Competitive Sport Cheer Swimming Diving Track & Field Co-ed Unified Basketball

Like all public schools, Freedom is feeling the effects of state budget cuts and any additional financial support or donations are always greatly appreciated and tax deductible.

Freedom values creating the safest possible environment for our students; however, risks of physical injury and even death exist when participating in extracurricular activities. To lessen these risks, all students who wish to try out for athletics must have completed District physical forms before the first day of try outs. All forms can be downloaded through our online registration site at [www.athleticclearance.com](http://www.athleticclearance.com). In addition, all completed physical forms must be dated after July 1, of the school year as prior dates are not valid.

We encourage you to sign up as a parent driver as many games are not financially covered for bus transportation. Driver forms can be downloaded off the school website. **Please feel free to contact any of our head coaches at their email addresses for more sport specific and tryout information.**

Finally, please come to our athletics preseason nights. These nights have valuable information regarding our programs and help us make our athletic programs the best they can be. Please visit our website at [www.luhsd.net/freedom](http://www.luhsd.net/freedom) for more information.



# Academic Honors

## **Honor Roll –**

To qualify, a student must receive no current grade below a C and have a **Total GPA of 3.25** or better

## **Principal's Honor Roll –**

To qualify, a student must receive no current grade below a C and have a **Total GPA of 3.75** or better

## **Academic Letter –**

Students are awarded an academic letter based on the following criteria:

1. At least four semesters with an **Academic GPA of 3.75** or better
2. A grade D or F in that semester disqualifies the student
2. A student must have taken a minimum of five college prep courses. College prep classes are designated with a P.

## **National Honor Society (NHS) –**

Students with a **3.0** or higher **Academic GPA** (as listed on their transcript) are invited to apply for membership in NHS during the spring semester of their sophomore year:

1. **3.25** or higher GPA
2. Completed application and recommendation from any teacher
3. Seniors with 4 or more semesters of membership receive graduation recognition and may wear an Honor Sash at the ceremony.
4. Active Members may qualify for a scholarship

## **California Scholarship Federation (CSF) –**

Students who qualify are invited to apply for membership in CSF:

1. A score of 10 CSF points based on the rules of the CSF application and list of approved courses
2. A grade of D or F in any course disqualifies the student from membership
3. Membership is by semester (must reapply every semester)
4. Seniors with 4 or more semesters of membership receive Life Membership and Honor Cords for graduation
5. Life Members may qualify for a scholarship



# Seal of Biliteracy



The Seal has **two components**. The student must meet the proficiency requirement for **English** and the proficiency requirement for **World Language**.

## 1. English (satisfy BOTH of the requirements)

- ✓ Complete all English-Language requirements for graduation (4 years) with an overall grade point average of 2.0 or above in those classes.
- ✓ Obtain a score of “proficient” or higher (3 or 4) in English on SBAC.

**NOTE:** If a student is still classified as an English Learner, he/she must meet the specified criteria AND have a ELPAC score of English Proficient (4)

## 2. World Language (satisfy 1 of the following 5 requirements)

- ✓ Demonstrate proficiency in one or more World (foreign) Languages- in addition to the English requirements- by accomplishing one of the following:
  - a. Score 3 or higher on an Advanced Placement (AP) foreign language test. We must have your AP score before seal can be awarded. (**Associated cost/\*\*See Additional Information**).
  - b. Score of 600 or higher on the SAT II (Scholastic Assessment Test II) foreign language test. Student will supply SAT Score. (**Associated cost/\*\*See Additional Information**).
  - c. Successfully complete a four-year high school course of study in a World (foreign) Language and attain an overall grade point average of 3.0 or above in that four year course of study. (4 years can consist of 3 consecutive years plus a 3.0 or above average in an AP course, in the same language, which will count as the 4<sup>th</sup> year.)
  - d. Complete Spanish for Spanish Speakers, levels 1 and 2, and Spanish 4 or AP Spanish with a 3.0 average or higher.
  - e. Pass an exam administered by the American Council for the Teaching of Foreign Language (ACTFL) with at least an Intermediate Mid-grade. You must supply the official proof of the grade to your school. This option is available in approximately 100 world languages (**Associated cost/\*\*See Additional Information**).

### **\*\*Additional Information**

1. If a student takes an AP, SAT or ACTFL test, he/she must inform the school’s Assistant Principal of their intent to submit the test results to meet the Eligibility Requirement under the World Language proficiency section (**The Assistant Principals listed will have the Biliteracy form**). Be sure that the Assistant Principal receives a copy of your score when it becomes available. Until scores are available, a student will be placed on a “pending” list and sent the Biliteracy Seal when results of testing are confirmed. If a student completed any of the above tests while enrolled at a different school, the student must submit their test scores and the required form described above. **The due date for the submission and the Biliteracy form for the above Tests is February 15<sup>th</sup> of the present school year.**
2. If a student is in an **Advanced Placement (AP)** class, the results of this test are not reported until August. At that time, if the student has received a score of 3 or higher and met all other requirements, the seal will be sent to the student. The **SAT or ACTFL tests** may be taken throughout the school year and scores may be available prior to graduation.

# Core, Academy, and ROP Programs

## Core Program

Students are randomly enrolled in one of four core building communities (B, C, D or E) and remain throughout their tenure at FHS. The building communities consist of an assistant principal, counselor and secretary. This structure allows students to experience a smaller, more personal educational community while attending FHS.

## Academy Program

There are currently three academies at FHS, each with a particular focus and career paths defined by majors. A major consists of a series of related courses within a career orientation. Enrollment in an academy is voluntary for students and staff. The goal is to provide the student, at the completion of the academy program, the option of entering the job market, enrolling at a community college or technical school, or pursuing collegiate studies with a clearly articulated academic background in a particular area. Students who complete an academy program are honored at graduation with a special designation, such as a stole, medallion or pin. Students are encouraged to explore our academy offerings and join the academy that best fits their personal interests and post-high school goals.

Students are encouraged to explore and learn about our academy offerings as freshmen and then join an academy during their sophomore or junior year, if they choose to do so. More academy information can be found on the following pages for our three academies: Professional Human Development (PHD); Communications; and Science Technology, Engineering and Mathematics (STEM).

## ROP Program

Operated by the Contra Costa County Office of Education, the Regional Occupational Program is a primary source of career training for high school students in our county. State certified teachers, high tech equipment and a commitment to students ensure a positive learning experience. Located on high school campuses, ROP courses are part of a student's regular high school schedule. Students complete 90-540 hours of sequenced curriculum and earn high school graduation credits and/or college units. Students can earn Certificates of Proficiency. Students must be a 16-year-old junior or senior to be enrolled in ROP courses. For more information, go to [www.cccoe.k12.ca.us/stsvcs/rop.html](http://www.cccoe.k12.ca.us/stsvcs/rop.html).

## Career and Technical Education (CTE) Pathways

Prepare for your future career today! Complete one of the following CTE Pathways. This will prepare you for college and your career. Complete a minimum of 20 credits with a C or better in one of the following pathways (one must be a *Capstone* course). Please see the course catalog for course descriptions and prerequisites. Look for exciting changes in the years to come!

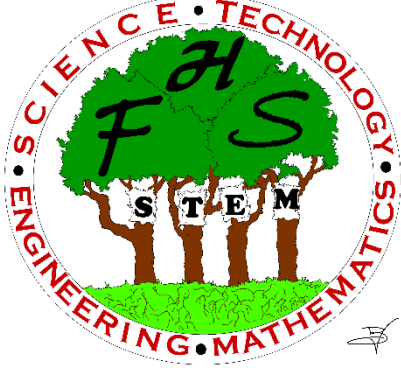
## Career and Technical Education (CTE) Pathways

INDUSTRY JOBS	FHS CAPSTONE (2 <sup>nd</sup> Class)	FHS CONCENTRATOR (1 <sup>st</sup> Class)	CTE PATHWAYS	CTE INDUSTRY SECTORS
Event Planner, Producer/Director for Theater, Television, Concerts, and Motion Picture, Stage Manager/Production Manager, Talent Manager, Theatrical and Broadcast Technician	Advanced Video Production	ROP Art of Video Production	Production And Managerial Arts	Arts, Media, And Entertainment
Digital Animator, Artistic Director, Commercial Artist, Web Designer, Museum Curator, 3-D Modeler, Compositing Artist, Texture Artist	Advanced Animation	Animation	Design, Visual, And Media Arts	Arts, Media, And Entertainment
Digital Animator, Artistic Director, Commercial Artist, Web Designer, Museum Curator, Flash Designer, Art Director, Multimedia Designer, Web Designer	ROP Graphic Design 2	Graphic Design	Design, Visual, And Media Arts	Arts, Media, And Entertainment
Portrait Photographer, Commercial Photographer, Scientific Photographer, Photojournalist/News Photographer, Freelance Photographer, Photo Editor	Photography 2	Photography 1	Design, Visual, And Media Arts	Arts, Media, And Entertainment
Child Care Worker, Child Development Specialist, Child Psychologist, Family Service Advocate, Family (Pediatric) and Human Services, Education and Teaching Careers.	ROP Careers w/ Children	Child Development	Child Development	Education, Child Dev.,And Family Services
Kinesiotherapist, Nurse Anesthetist, Respiratory Therapist, Radiologic Technician, Dental Hygienist	ROP Advanced Sports Medicine	ROP Sports Medicine	Patient Care	Health Science, And Medical Technology
Computer and Information Systems Manager, Computer User Support Specialist, Database Administrator, Document Management Specialist, Business Intelligence Analyst	AP Computer Science Principles	Exploring Computer Science	Information And Support Services	Information And Communication
Computer and Information Systems Manager, Computer User Support Specialist, Database Administrator, Document Management Specialist, Video Game Design	Intro to Game Design	Mobile App Development	Information And Support Services	Information And Communication

INDUSTRY JOBS	FHS CAPSTONE (2 <sup>nd</sup> Class)	FHS CONCENTRATOR (1 <sup>st</sup> Class)	CTE PATHWAYS	CTE INDUSTRY SECTORS				
Actor, Performing Artist, Singer, Dancer, Voiceover Artist, Narrator, Teacher	Theater Arts 2 (pending)	Theater Arts 1 (pending)	Performing Arts	Arts, Media, And Entertainment				
Human Resource Specialist, Education Administrator, Purchasing Agent, Office Manager, Chief Financial Officer	Virtual Enterprise	Business And Marketing	Business Management	Business And Finance				
Animal Control Worker, Correctional Officer/Probation Officer, Law Enforcement Officer, Loss Prevention Specialist, Military Service	Mock Trials, Moot Courts, And Trial	ROP Law Enforcement	Public Safety	Public Service				
Display or Sales Associate, Merchandising Manager, Fashion Designer	Fashion Design 2	Fashion Design 1	Fashion Design And Merchandising	Fashion And Interior Design				

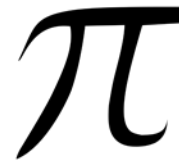


*Are you interested in a career in the sciences,  
technology, engineering or mathematics?*



**Science, Technology, Engineering and Mathematics Academy**

The STEM Academy offers a range of electives in the areas of mathematics, engineering, technology and the sciences. Our focus is student success in high school and beyond. We offer certificates in many major pathways. In addition, the STEM organizes yearly class projects, field trips and activities to enrich student's high school experience. The STEM Academy is currently coordinated by Ms. Bruins (C211) and Ms. Dagan (P17)



STEM Pathway	Career pathways
<b>Engineering</b>	<ul style="list-style-type: none"> <li>a. Architectural and Structural Engineering</li> <li>b. Computer Hardware, Electrical, and Networking Engineering</li> <li>c. Engineering Design</li> <li>d. Engineering Technology</li> <li>e. Environmental and Natural Science Engineering</li> <li>f. Public utilities</li> </ul>
<b>Technology</b>	<ul style="list-style-type: none"> <li>a. Information Support and Services</li> <li>b. Media Support and Services</li> <li>c. Network Communications</li> <li>d. Programming and Systems Development</li> </ul>
<b>Research Sciences</b>	<ul style="list-style-type: none"> <li>a. Life sciences</li> <li>b. Physical sciences</li> </ul>
<b>Mathematics</b>	<ul style="list-style-type: none"> <li>a. Applied mathematics</li> <li>b. Theoretical mathematics</li> </ul>



Freedom High School’s Professional Human Development Academy (PHD) seeks students with a desire to make a difference in our world! Students selecting this academy will focus on careers that provide services to others in society. Elective courses in our academy give students the opportunity to have real life experiences. The PHD Academy prepares students to meet their future by exploring careers, offering exciting elective courses and allowing students to job shadow in their specific field or career. The PHD Academy is coordinated by Mr. Clark (P 7 ) and Ms. Hooper (H101). Our Professional Human Development Academy elective courses focus on the following careers:



Career Focus	Courses
Fire Technology	ROP Fire Sciences, Strength and Fitness, (AP) Chemistry, Forensic Science, (AP) Environmental Science
Law & Administration of Justice	ROP Law Enforcement, (AP) American Government, Forensic Science, Speech & Debate, AP Psychology
Medical Care	Anatomy & Physiology, AP Biology, (AP) Statistics, (AP) Chemistry, AP Psychology, Sports Medicine, Zoology
Psychology	AP Psychology, Peace & Conflict, Anatomy & Physiology, AP Biology, (AP) Statistics
Education	AP Psychology, Child Development, ROP Careers with Children, Speech & Debate, Peace & Conflict

# COMMUNICATIONS ACADEMY

## Our Mission:

The Communications Academy seeks to build a community of self-directed learners who specialize in communication, collaboration, and creative problem solving. Students view media with an intellectual and critical perspective, and they are encouraged to apply the skills they have gained from academy classes to higher education as well as future careers in design and communications.



To earn Academy honors upon graduation, a student must complete 70 units in their chosen pathway which includes the two capstone courses required in that major and a portfolio. In exchange, a student may opt to complete a large scale community outreach project their senior year (with academy approval).

Three years of world language classes are required in addition to the coursework listed above.

# Clubs and Advisors

Studies show that students who are invested in their school outside of the classroom have a tendency to perform better academically. One of the best ways to invest in your school community is through membership in a school club. There are many choices. Take some time to investigate our club offerings and meet the club advisors.

<b>Activities:</b> <b>Academic Decathlon: Aerospace &amp; Robotics:</b> <b>ALOHA:</b> <b>Anime Club:</b> <b>Art club:</b> <b>Band:</b> <b>NVC:</b> <b>Best buds:</b> <b>Black Student Union:</b> <b>California Scholarship Federation:</b> <b>Choir:</b> <b>Centre Stage:</b> <b>Color Guard:</b> <b>Communications Academy:</b> <b>Computer Science:</b> <b>Connect Crew:</b> <b>Dance Line:</b> <b>Class of '20:</b> <b>Class of '21:</b> <b>Class of '22:</b> <b>Class of '23</b> <b>Fashion Club:</b> <b>FHS band:</b> <b>French Club:</b> <b>Head Rally:</b> <b>Gamers Club:</b> <b>SAGA:</b> <b>German Club:</b>	Dana Johnston Sean Clarke Dave Harte TBD Not Active Not Active George Chilcott Susan Warren Kristen Scott Rucker/Marcacci Sheila Angelo Eli Souza TBD George Chilcott Allison Smith Not Active Dana Johnston Laney Houston Wilmore/Burke Treichelt/Ashton Apel/Foehr Emery/Meyer Dave Behling George Chilcott Madame Boden Sandy Torres David Harte Hooper Textor/Smith	<b>Interact Club</b> <b>Italian Club:</b> <b>Journalism:</b> <b>Latinos Unidos:</b> <b>Leadership:</b> <b>Orchestra:</b> <b>Math Club:</b> <b>MTG club:</b> <b>Military Club:</b> <b>National Honor Society:</b> <b>P.A.W.S:</b> <b>PHD Academy:</b> <b>Power of Unity:</b> <b>PUSH</b> <b>Redeemed:</b> <b>Rugby Club</b> <b>STEM:</b> <b>Sports Medicine:</b> <b>The Zone:</b> <b>Unicef</b> <b>Yearbook:</b>	Carey Nuno/Coniglio Not Active Anna Gonzalez-Ortega Dana Johnston George Chilcott Burke/ Gordon Not Active Not Active Cheryl Ochinerro Not Active N. Hooper C. Rodriguez Neil Boden N. Boden/ V. Graves TBD Bevaqua/Harte Glenn Briggs Dana Johnston Kathy Burke Lori Butler
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**Activities:** For questions regarding any of the school's clubs or extra-curricular activities, please email the advisor or Dana Johnston, Activities Director: [johnston@luhsd.net](mailto:johnston@luhsd.net)

# Academies

<b>PhD</b> Hooper/Clarke	<b>STEM</b> Dagan/Bruins	<b>Communications</b> Smith/Marlow-Rendler
The PhD Academy [Professional Human Development] seeks any student with a desire to pursue careers that provide a service to others in society.	The STEM Academy offers a range of electives in science, technology, engineering, and mathematics. The academy focus is student success in high school and beyond.	The Communications Academy seeks to build a community of self-directed learners who are interested in pursuing a career in the design and communications fields.

# Arts: Visual

## P-Beginning Art Course #1506

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

No previous art experience is necessary for this beginning level art class. All projects are based on learning the elements of art (line, shape, form, value, color, space, texture) using a variety of art media. The principles of design are also introduced.

## P-Intermediate Art Course #1516

**Level:** 10-12  
**Length:** Year (10 credits); repeat to 20 credits  
**Prerequisite:** Beg. Art or instructor approval  
**Graduation:** Fine Arts or elective credit  
**College Prep:** VAPA (f) requirement

A standards based class, Intermediate Art expands concepts and skills gained in Beginning Art, which include art techniques and composition building. The student will use a wide variety of materials to create individual artwork. Students will further develop assessments and critiquing to better understand their growth as an artist. Examples of assignments are figure drawing, still life, ceramics, landscape paintings, surrealism and symbolism.

## P-Advanced Art Course #1520

**Level:** 10-12  
**Length:** Year (10 credits); repeat to 20 credits  
**Prerequisite:** A grade of B- or better in Beg. Art, A grade of C in Intermediate Art, or instructor approval  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

Advanced Art expands student knowledge of harmonious relationships between line, value, color, texture and form gained in Beginning and Intermediate Art. Students use a wide variety of techniques and materials to create artworks. Advanced students will develop their creativity and grow in their technical ability. Students will be exploring what it means to be an artist, developing original ideas and creating an artistic voice. They will focus on understanding their artistic process.

## P-Advanced Placement (AP) Studio Art Course #1578

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Beg. Art, highly recommended to have taken Int. art or be signed up in advanced art concurrently or instructor approval  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

AP Studio Art is a college level course that enables students to do college-level work in studio art while still in high school. AP Studio Art is not based on a written examination, but instead candidates submit a portfolio of work for evaluation at the end of the school year. Three sections of the portfolio are: A. Quality – the development of a sense of excellence in art. B. Concentration – a commitment in depth to a particular artistic concern. C. Breadth – a variety of experiences in the formal, technical, and expressive means available to an artist. Students may select to do either a Drawing, 2-D, or 3-D Portfolio. Students may repeat the course for each of the 3 portfolio selections. A mandatory parent meeting is held in the Spring semester.

## P-Animation Course #4094

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

This course focuses on traditional and three dimensional and animation techniques. It introduces the principles of 2D animation and 3D modeling. Students learn professional animation production techniques. Mastering these fundamental skills is essential for a career in the digital industry.

## P-Advanced Animation Course #4098

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Animation  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

This course will further explore the techniques of traditional, and computer animation techniques to help students build a strong portfolio for college/career goals in the field of animation.

## P-Graphic Design 1 Course #1548

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Fine Arts requirement  
**College Prep:** VAPA (f) requirement

This is an introductory course for students interested in pursuing a career in Graphic Design. Students will be introduced to the techniques, vocabulary and history of design as it pertains to print based media. They will build skills in Adobe Photoshop, InDesign and Adobe Illustrator while creating menus, books, posters, logos and illustrations.

## P-ROP Graphic Design 2 Course #1549

**Level:** 10-12  
**Length:** Year (10 credits); repeat to 30 credits  
**Prerequisite:** Graphic Design 1  
**Graduation:** VAPA (f) requirement

This is an advanced level course for students interested in pursuing a career in Graphic Design. Students will further their knowledge of the techniques, vocabulary and history of design as it pertains to print based media.

## Publications/Graphic Art (Yearbook) Course #3195

**Level:** 9-12  
**Length:** Year (10 credits); repeat to 40 credits  
**Prerequisite:** Application process  
**Graduation:** Fine Arts requirement

This course teaches basic production techniques which focus on copy writing, placement, layout design and continuity, photographic processes, advertising, marketing, sales promotion, and how to meet deadlines. Opportunities in photography journalism, computer graphics and graphic design will be provided. The final product is the school yearbook.

## P-Advanced Placement (AP) Art History Course #1575

**Level:** 10-12 (9<sup>th</sup> grade with instructor approval)  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

An intensive course for the student interested in studying the effect of art on our world. Students participate in critiques and discussions of masterpieces. A research paper and field trip to a museum or gallery facilitate the students understanding of art as history. Serious students with strong writing skills should be able to pass the advanced placement exam for college credit. Students will be charged a fee for A.P. Testing. A mandatory parent meeting is held in the Spring Semester.

**P-Photography I** **Course #1593**

**Level:** 11-12  
**Length:** Year (10 credits);  
**Prerequisite:** None  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

An introduction to photography that exposes students to a variety of technical skills related to control of cameras, exposure meters, light, film, developers, enlargers, and print papers. Communication skills related to translation of ideas and concepts into effective visual images and communication design concepts are also elements of the course. Students study advanced technologies related to photography.

**P-Photography II** **Course #1594**

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Photography I  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

Photography II is an advanced photography course. This course will provide students with the opportunity to extend and advance their knowledge and skills in the field of photography. This course will familiarize the student with advanced photographic equipment, materials, methods and processes. It will require the student to produce digital images, using digital cameras, scanners, Photo Shop, Indesign, and other computer technology.

**P-Theater Arts I** **Course #6104**

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**College Prep:** VAPA (f) requirement

Theater Arts I provides an introduction to theater as a discipline and art form. Students will study theater history and explore the way in which theater affects and is affected by its societal context. Through theater games and improvisation exercises, students will develop confidence, trust, and voice and movement skills. As they give and receive criticism on performances in and outside of class, students will apply evaluative criteria and appreciate excellence in performance.

**P-Theater Arts II** **Course #6166**

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** Theater Arts I or instructor approval  
**College Prep:** VAPA (f) requirement

Theater Arts II is designed for the intermediate student who wants to build upon the skills learned in Theater Arts I. Through play analysis, scene work, and one-act play preparation and performance, students will build believable characters, apply basic technical theater skills, develop directing skills, and work effectively in an ensemble. Students will develop audition material.

**P-Theater Arts III** **Course #6176**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Theater Arts I and II or instructor approval  
**College Prep:** VAPA (f) requirement

Theater Arts III builds upon the skills learned in Theater Arts I and II. Through participation in in-depth projects, students will apply directing, acting, technical, and dramaturgical skills. During these projects, they will write and adapt scripts. By exploring different theatrical genres, students will evaluate and appreciate a variety of production styles.

**P-ROP The Art of Video Production** **Course #6182**

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Age 16  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

Video Production provides students the opportunity to develop basic video production techniques. Students design, shoot, edit, and produce video projects. Students use field and studio equipment to produce professional quality video programs.

**P-ROP Advanced Video Production** **Course #6185**

**Level:** 11-12 or age 16  
**Length:** Year (10 credits)  
**Prerequisite:** Video Production or instructor approval  
**Graduation:** Elective credit  
**College Prep:** VAPA (f) requirement

This is an advanced level course using computers and video equipment to plan, shoot, and edit video programs. Emphasis is on advanced level script writing, audio techniques, lighting, camera operation and editing. Computers are used as a creative and organizational tool for the purpose of producing high quality videos. Program styles include documentary, educational, and dramatic video production. Students use field and studio equipment to produce professional quality video programs.



## Music Appreciation Course #6060

**Level:** 9-12  
**Length:** Semester (5 credits)  
**Prerequisite:** None  
**Graduation:** Fine Arts requirement or elective credit

Music Appreciation is a classroom music course designed to provide students with a source of aesthetic enjoyment through the study of music and its development - past and present. This course will include appreciation for music, dance, theatre, art and how these relate to the western world over the past two centuries. It will examine the effects each has had on the others and how conditions, political and social views and etiquette of the time compare with those of today.

## Beginning Guitar Course #6056

**Level:** 9-12  
**Length:** Semester (5 credits); repeat to 10 credits  
**Prerequisite:** None  
**Graduation:** Fine Arts requirement or elective credit

Beginning Guitar introduces students to chords, theory, and accompaniment as well as notation, solos and ensembles. Performances are presented in class several times a quarter. Students must furnish their own equipment.

## Instrumental Studies Course #6050

**Level:** 9-12  
**Length:** Semester (5 credits); repeat to 10 credits  
**Prerequisite:** None  
**Graduation:** Fine Arts requirement or elective credit

Introduction to Band Instruments is an instrumental music class designed to introduce students to, and provide students with, a source of aesthetic enjoyment of, and an experience in ensemble playing. A number of extra-curricular performances are required part of this course. Students will need to have their own band instrument.

## P-Orchestra Course #6036

**Level:** 9-12  
**Length:** Year (10 credits); repeat to 40 credits  
**Prerequisite:** Instructor approval  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

Designed primarily (but not solely) for experienced students who play string instruments (i.e. violin, viola, cello, double bass) and/or experienced piano students – **students with no string instrument experience are welcome to join.** Students perform at various concerts, festivals, and occasions as well as the holiday and spring concerts. All performances are mandatory.

## P-Concert Band Course #6016

**Level:** 9-12  
**Length:** Year (10 credits); repeat to 40 credits  
**Prerequisite:** Instructor approval  
**Graduation:** Fine Arts requirement  
**College Prep:** VAPA (f) requirement

Concert Band is an intermediate performance band for experienced incoming band freshman and other band musicians. Members of this group will become a Marching Band in the fall as they combine with Symphonic Band members to perform at Freedom football games and local parades. Marching rehearsals will be held on Wednesday evenings from 6-8:30 p.m. Other performances will include holiday and spring concerts and music festival performances. All rehearsals and performances are mandatory.

## P-Symphonic Band Course #6020

**Level:** 10-12  
**Length:** Year (10 credits); repeat to 40 credits  
**Prerequisite:** Audition  
**Graduation:** Fine Arts requirement or elective credit

Symphonic Band is an advanced performance band for advanced high school musicians. Members of this group will become a Marching Band in the fall only, as they combine with Concert Band members to perform at FHS football games and local parades. Marching rehearsals will be held on Wednesday evenings from 6-8:30 p.m. Other performances will include holiday and spring concerts as well as performances at other high schools, colleges, and festivals. All rehearsals and performances are mandatory.

## P-Jazz Band Course #6037

**Level:** 9-12  
**Length:** Year (10 credits); repeat to 40 credits  
**Prerequisite:** Concurrent enrollment in Orchestra, Symphonic or Concert Band and audition

**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

Jazz Band is an intermediate-to-advanced instrumental music and theory class designed to provide a source of aesthetic enjoyment and instruction in practice and performance in the concepts and techniques of various styles of jazz. Students must be able to play with a high degree of skill and show consistent improvement in their abilities. Emphasis is placed upon improvisation and the accompanying music theory. A number of extra-curricular performances are a required part of this course.

## P-A'Cappella Choir Course #6092

**Level:** 10-12  
**Length:** Year (10 credits); repeat to 40 credits  
**Prerequisite:** Audition  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

A'Cappella Choir is an intermediate choral music class. Students must have had some vocal experience and be able to sing with a medium to high degree of skill. Emphasis will be on intermediate to advanced musicianship, vocal production, and vocal/choral technique. All performances are mandatory.

## P-Women's Chorus Course #6086

**Level:** 9-12  
**Length:** Year (10 credits); repeat to 40 credits  
**Prerequisite:** None  
**Graduation:** Fine Arts requirement  
**College Prep:** VAPA (f) requirement

Women's Chorus Women's Ensemble is an intermediate to advanced choral music class. Students must have vocal experience and be able to sing with a medium to high degree of skill. Emphasis will be on intermediate to advanced musicianship, vocal production, and vocal/choral technique. All performances are mandatory.

## P-Men's Chorus Course #6070

**Level:** 9-12  
**Length:** Year (10 credits); repeat to 40 credits  
**Prerequisite:** None  
**Graduation:** Fine Arts requirement  
**College Prep:** VAPA (f) requirement

Student must be able to match pitch. This will be determined by instructor during the first 2 weeks of the semester.. At least one performance is scheduled per semester.

## P-Select Singers Course #6100

**Level:** 10-12  
**Length:** Year (10 credits); repeat to 40 credits  
**Prerequisite:** Audition, and concurrent enrollment in at least one other choir (Women's Ensemble, A'Cappella Choir, Women's Chorus, or Men's Chorus)  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

Select Singers Select Singers is an advanced choral music class designed for singers displaying a high degree of vocal/choral experience and skill. Emphasis is on more advanced facets of musicianship, vocal/choral production and vocal/choral technique. Participation in performances of the Select Singers is mandatory. \*Students enrolled in this class must be concurrently enrolled in either A'Cappella Choir, Women's Ensemble, Women's Chorus, or Men's Chorus

## P-Women's Ensemble Course #6142

**Level:** 10-12  
**Length:** Year Class (10 credits); repeat to 30 credits  
**Prerequisite:** One year of Women's Chorus and audition  
**Graduation:** Fine Arts requirement  
**College Prep:** VAPA (f) requirement

Women's Ensemble is an intermediate choral music class designed for women with some vocal experience. Emphasis is on intermediate musicianship, vocal production, and vocal/choral technique. All performances are required. At least one performance is scheduled per semester

**Piano I** **Course #6058**

**Level:** 9-12  
**Length:** Year Class (10 credits); repeat to 40 credits  
**Prerequisite:** None  
**Graduation:** Electives Credit

Piano Class 1 is a course designed to teach students with little or no experience in music; performance skills (solo and in an ensemble), rehearsal techniques, how to read and play music on the grand staff theory, concert etiquette, and listening and analyzation. Piano Class 1 serves as a prerequisite to Piano Class II. **Parent/Guardian and student must sign an Acceptable Use Policy contract prior to students using computers on campus. (Contract is part of the online registration process)**

**Piano II** **Course #6059**

**Level:** 9-12  
**Length:** Year Class (10 credits); repeat to 40 credits  
**Prerequisite:** Successful completion of Piano Class I, or teacher approval.

**Graduation:** Electives Credit  
 Piano Class II is a course designed to teach students with moderate experience at the piano; performance skills (solo and in an ensemble), rehearsal techniques, how to read and play music on the grand staff, music theory, concert etiquette, and listening and **Parent/Guardian and student must sign an Acceptable Use Policy contract prior to students using computers on campus. (Contract is part of the online registration process)**

## Career Technical Ed.

**Game Design using JavaScript** **Course #TBA**

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** None, except interested in computer science, Coding, and programming.  
**Graduation:** Elective credit  
**College Prep:** Elective (g) credit

Game Design teaches the foundations of creating video games in JavaScript. The course utilizes a blended classroom approach. The content is web-based, with students writing and running code in the browser. The teacher will utilize tools and resources to leverage time in the classroom and give focused attention to students. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises. Each unit ends with a comprehensive unit test that assesses student's mastery of the material from that unit. The course is highly visual, dynamic, and interactive, making it engaging for new coders.

**P-ROP Digital Arts/Designs for the Web** **Course #4039**

**Level:** 10-12  
**Length:** Year (10 credits) repeat to 30 credits  
**Prerequisite:** Age 16 and basic computer skills recommended  
**Graduation:** Fine Arts requirement or elective credit  
**College Prep:** VAPA (f) requirement

Students create, design and publish web pages using professional programs like Dreamweaver, Flash, Fireworks, and Photoshop. Students learn HTML, CSS, JavaScript and FTP for creating and uploading content to the web. As part of the ROP program, students learn about industry jobs and create a professional online portfolio. Students who complete the program successfully receive ROP certification for skills gained in this course.

**Mobile App Development** **Course #TBA**

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** None, except interested in computer science, coding programming.  
**Graduation:** Elective credit

This Mobile Apps course is designed to introduce high school students to the highly sought-after world of mobile app development using MIT App Inventor platform. MIT App Inventor is an intuitive, visual programming environment that allows everyone to build fully functional apps for smartphones and tablets both Android and IOS. MIT App Inventor blocks-

based tool facilitates the creation of complex, high-impact apps in significantly less time than traditional programming environments. Students will learn how to create scalable, custom, and fast mobile applications.

**Exploring Computer Science** **Course #4077**

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** Basic computer skills  
**Graduation:** Elective credit

Exploring computer Science is a yearlong course consisting of 6 units. The course was developed around a framework of both computer science content and computational practice. Assignments and instruction are contextualized to be socially relevant and meaningful for diverse students. Units utilize a variety of tools/platforms and culminate with final projects around the following topics; human computer interaction problem solving, web design, programming, computing and data analysis and robotics.

**P-AP Computer Science Principles** **Course #4746**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Basic computer skills  
**Graduation:** Elective credit  
**College Prep:** Elective (g) credit

Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. Code.org is recognized by the [College Board](#) as an endorsed provider of curriculum and professional development for AP® Computer Science Principles. This endorsement affirms that all components of Code.org CS Principles' offerings are aligned to the AP Curriculum Framework standards and the AP CS Principles assessment.

**Design Drafting** **Course #4036**

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra 1 (or concurrent enrollment highly recommended)  
**Graduation:** Fine Arts requirement or elective credit

Design Drafting is a one-year course designed to acquaint students with a pictorial language used throughout industry. The course teaches drafting fundamentals and provides hands-on experience for developing drafting skills and techniques. It is designed to provide the student with a background in basic mechanical and technical drawing. This course helps students develop problem-solving ability, interpret the ideas of others, and express themselves visually in an understandable manner. Drafting provides a wide range of skills that are transferable to many aspects of everyday life. Emphasis is on the basic use of traditional drafting equipment and the understanding of design/drafting principles as they apply, but are not limited to, future pursuits in the architectural and engineering career field.

**P-Jumpstart to Engineering** **Course #4252**

**Grades:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra 1 and/or Design Drafting (or concurrent enrollment highly recommended)  
**Graduation:** Elective credit  
**College Prep:** Elective (g) credit

This is an introductory class designed to provide students with a hands-on approach to exploring the connections and relevance of science, engineering, and technology in science. The main component to the class is the design, construction, and analysis of several long term projects using computers as part of the design process. Students will be introduced to structural, mechanical, aerospace and robotic engineering.



**Business and Marketing** **Course #2296**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Business Computer Applications recommended  
**Graduation:** Elective credit

In this business course, students will study the importance of business and marketing in the global economy. Emphasis will be placed on both oral and written communications, problem solving, and critical thinking skills, as they relate to selling, promotion, distribution, pricing, product/service management, and entrepreneurship, finance and career development. Using technology applications, students will work through engaging projects and simulations to learn and apply business concepts and skills.

**Business Computer Applications** **Course #2297**

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Elective credit

Business Computer Applications is an introduction to computer applications as it relates to business and home use. The course introduces software topics in Microsoft Windows, Microsoft Office, Internet, World Wide Web, electronic mail, file management, and data communications. Hardware topics include PC system components and troubleshooting issues. Other topics include typing skills, computer-based careers and trends, electronic computing issues, terminology, electronic communication skills, ethics, security, and netiquette in today's business computing environment. Business Computer Applications will provide students with computer knowledge and skills to increase their productivity which will give them a competitive advantage in the job market.

**P-Child Development** **Course 2516N**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Graduation:** Elective credit  
**College Prep:** Elective (g) credit

Child Development is a course which enables students to understand how to work with and care for children as they grow. Students learn how children from prenatal stages through adolescence grow physically, mentally, socially, and emotionally.

**P-ROP Careers with Children** **Course #2730**

**Level:** 11-12  
**Length:** Year (double-blocked class 20 credits)  
**Prerequisite:** Must be 16 years or older  
**Graduation:** Elective credit  
**College Prep:** Elective (g) credit

Students explore careers related to education through the study of child development, positive guidance techniques, curriculum development and health and safety. Active class participation is enhanced by fieldwork at school sites under the guidance of a mentor teacher. All students are required to observe and/or participate in a variety of settings in elementary classrooms at the preschool level. Completion of this course with a B or better and 95% positive attendance articulates with LMC Child Development 1 worth 3 units of credit at LMC. This course includes Pediatric First Aid/CPR/AED certification.

**ROP Law Enforcement** **Course #0061**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Elective credit

This course introduces students to the field of law enforcement, criminal justice and police science. Students will become familiar with the structure and organization of the criminal justice system and gain knowledge of basic police procedures, regulations and responsibilities. Included is a brief overview of law and penal code, laws of arrest, search and seizure guidelines, patrol and investigation procedures, and emergency response, along with field trips to police stations and courtrooms. Emphasis is placed on developing awareness of citizens' rights and responsibilities, the realities of police work, and the positive role of law enforcement in the community. Law Enforcement prepares students for further training or entry-level positions in the field of law enforcement. Integrated throughout the course are career preparation standards which include basic academic skills, communication, interpersonal skills, problem solving, workplace safety, technology, and employment literacy.

**Mock Trials, Moot Courts, and Trial Advocacy** **Course #5329**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Law Enforcement  
**Graduation:** Elective credit

This course will familiarize high school students with basic concepts of law, the American justice system and teach them effective trial advocacy techniques. All students will learn about persuasive oral presentation, critical thinking, legal analysis and public speaking as they actively participate in trial and appellate court case studies, mock trials and moot courts. This course will cover: basic concepts of law, courtroom demeanor, direct and cross examination, opening statements, closing arguments, courtroom exhibits, evidentiary trial objections, witness portrayal, the appeals process, and case precedence. Instruction on controversial and current event issues shall be related to curriculum: trial and court processes and case precedence. Instruction will be presented in a balanced manner, addressing all sides of the issue without bias or prejudice and without promoting any particular point of view. Adequate factual information shall be provided to help students objectively analyze and evaluate the issue and draw their own conclusions as they relate to law.

**ROP Fire Science** **Course #2750**

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Must be 16 years or older  
**Graduation:** Elective credit

This class follows the California Firefighter 1 Curriculum and is also articulated with the Essentials of Firefighting 4th Edition Textbook. This class prepares students for future study of fire science, as well as providing them hands-on experience with firefighting equipment.

**P-ROP Sports Medicine** **Course #5582**

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Must be 16 years or older  
**Graduation:** Elective credit  
**College Prep:** Elective (g) requirement

Areas covered in this course are human anatomy, physiology, nutrition, equipment fitting, prevention, evaluation, and treatment of injuries. This course includes CPR certification and first aid. (Internship at sporting events is required.)

**ROP Sports Medicine II** **Course #5585**

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Age 16, ROP Sports Medicine I, Anatomy and Physiology (may be concurrently enrolled)  
**Graduation:** Elective credit

This course provides classroom instruction and practical experience in the field of sports medicine and fitness. Students learn human anatomy, first aid, CPR, taping and wrapping skills, injury prevention, rehabilitation and care, nutrition, and exercise physiology. This prepares students for careers in the field of sports medicine. Students complete five hours per week of classroom instruction, plus an additional five hours per week of internship. Students study advance course work in this area.

**P-Athletic Management** **Course #5660**

**Level:** 10-12  
**Length:** Year (10 credits) repeat for credit  
**Prerequisite:** Teacher recommendation  
**Graduation:** Elective Credit  
**College Prep:** Elective (g) requirement

Athletic Management is a course which introduces students to the skills necessary for success in the athletic world. Student will learn steps necessary to run effective athletic programs and events. Course topics include philosophy, legal issues, game management including incorporation of technology such as press releases and webcasting, athletic field management and athletic survey of middle schools, high school, college, and professional programs. Students will participate in a variety of projects throughout the course which will enhance the overall athletic and academic experience of the campus.

**Basic Electronics** **Course #5197**

**Level:** 9-12  
**Length:** Semester (5 credits)  
**Prerequisite:** None  
**Graduation:** Elective credit

Students learn the fundamentals of electricity and how it is used and controlled in electronic circuits. Students learn practical skills for solving real-life problems. Students write explanations of component and circuit functions as part of ongoing lab work. For the final project, students construct (solder) a circuit board project and complete a written report explaining how it works.

**Virtual Enterprise** **Course #2310**

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Elective credit

In this exciting business course, students will create and operate a virtual business! Under the guidance of a teacher mentor, students will determine the nature of the enterprise, its products, services, and management structure. They will use current business software to conduct business with other students across the United States via the Internet. As business employees, students will receive a virtual salary, which they will use to pay virtual bills. They will also be able to make virtual purchases from other virtual enterprises across the country. In addition, as a part of the Virtual Enterprise program, students will also have the opportunity to work with real business partners, and even travel to some trade fairs where they will compete with other virtual enterprises throughout California. Anyone who wants to try out a possible business career should think about enrolling in the Virtual Enterprise.

**Personal Finance** **Course #2596**

**Level:** 9-12  
**Length:** Semester (5 credits)  
**Prerequisite:** None  
**Graduation:** Elective credit

This course introduces students to a way of thinking about personal financial decisions. Students learn to plan and manage their personal finances, achieve a financially successful life, and take responsibility as a citizen. Students think harder and farther about the larger and longer consequences of making financial decisions. Although many of the more practical aspects of personal finance will change over time, due to practices, technologies, customs, and laws, the fundamental awareness of ways to think about solving financial issues can always be useful.

**Fashion Design 1** **Course #1491**

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** None (Beginning Art Recommended)  
**Graduation:** Elective credit

Fashion Design I is the first course of a two course CTE pathway. This course will focus on the fashion industry. The student will: Learn the aesthetic aspects of design necessary to create sketches, designs, and original fashions. It also studies fashion trends throughout history, from ancient times, to modern-day and includes an understanding of cultural, social, political, and economic influences on fashion design. Students utilize the elements and principles of design to create their own original designs in fashion. Through the use of a variety of fabrics, trims, embellishments and decorations students will express and explore fashion, art and design. Students will analyze the artistic nature of fabric and fashion design, explore the elements of the contemporary fashion movement and create their own interpretations of fashions. Throughout the year, students learn how fashion design is connected to other academic disciplines and the career opportunities that are related to the fashion industry and the world of fashion.

**Fashion Design II** **(Pending)**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Fashion Design I (Beginning Art Recommended)  
**Graduation:** Elective Credit

This course will continue the student's focus on the fashion industry. Students will explore and demonstrate knowledge in cultural and social influences on the fashion industry. Students will demonstrate their knowledge of the elements and principles of design in both two and three dimensions. They will learn industry terminology. They will become familiar with prominent designers (past and present), recognize the impact of other art forms on the fashion industry, and use academic discipline as part of their learning the industry. Students will create a portfolio of sketches, figures drawings, study the world of textiles, as well as create fashion. Students will be required to research educational and career requirements and opportunities in the field of fashion. Students will explore how technology has impacted niche marketing and look at online (Etsy/e-bay) marketability of personal creations. Students will also explore interior design and how the fashion industry extends beyond the clothes they wear.

## English Language Arts

**English Fundamentals** **Course #3270**

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** Low CST test results may require concurrent enrollment in this course and English 9  
**Graduation:** Elective credit

English Fundamentals is a support class that students must take if they scored Far Below or Below Basic on their 8th grade California Content Standards Test. This class will review the fundamentals of grammar, word analysis, and improve students' reading comprehension.

**P-English 9** **Course #3030**

**Level:** 9  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Year 1 English requirement  
**College Prep:** Year 1 English (b) requirement

English 9 is a core literature-based language arts course integrating literature, writing, grammar, mechanics, speaking and listening, vocabulary development, reading skills, and study skills.

**P-English 10** **Course #3040**

**Level:** 10  
**Length:** Year (10 credits)  
**Prerequisite:** English 1  
**Graduation:** Year 2 English requirement  
**College Prep:** Year 2 English (b) requirement

English 10 is a core literature-based program integrating literature with writing, grammar, mechanics, speaking and listening, vocabulary development, reading skills, and study skills.

**P-English 11** **Course #3050**

**Level:** 11  
**Length:** Year (10 credits)  
**Prerequisite:** English 2  
**Graduation:** Year 3 English requirement  
**College Prep:** Year 3 English (b) requirement

English 11 is a core literature-based program integrating the study of American literature with writing, speaking and listening, vocabulary development, reading skills, and study skills.

**P-English 12** **Course #3060**

**Level:** 12  
**Length:** Year (10 credits)  
**Prerequisite:** English 3  
**Graduation:** Year 4 English requirement  
**College Prep:** Year 4 English (b) requirement

English 12 is a core literature-based program integrating the study of British literature with grammar, mechanics, speaking and listening, vocabulary development, reading skills, and study skills.

**P-World Studies Program** **Course #1428**

**Level:** 10  
**Length:** Year (double-blocked class 20 credits)  
**Prerequisite:** English 1  
**Graduation:** Year 2 English and World Hist requirement  
**College Prep:** Year 2 English (b) and World Hist (a) requirement

World Studies integrates English 2 and World History, and is designed to explore world culture and the major turning points in world history to make connections between real life history and American literature. The course will review the rise of democracy through nation building of modern day.

**P-American Studies Program** **Course #1438**

**Level:** 11  
**Length:** Year (double-blocked class 20 credits)  
**Prerequisite:** English 2  
**Graduation:** Year 3 English and US History requirement  
**College Prep:** Year 3 English (b) and US History (a) requirement

American Studies integrates English 3 and U.S. History, and is designed to explore American culture and the major turning points in U.S. history to make connections between real life American History and American literature. The course will review the rise of democracy and the industrial and technological transformations.

**P-Adv. Placement (AP) Lang. and Composition** **Course #3085**

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** English 2  
**Graduation:** Year 3 English requirement  
**College Prep:** Year 3 English (b) requirement

Advanced Placement Language and Composition is equivalent to a college or university Freshman Composition course and prepares students to take the Advanced Placement Language and Composition exam. Students will become skilled readers and analyzers of literary prose written from a variety of time periods. As a result of such analysis, students will become skilled writers who will be able to produce compositions for a variety of purposes. Through their writing and reading assignments, students learn the purpose and influence of literary prose.

**P-Adv. Placement (AP) Literature and Composition** **Course #3120**

**Level:** 12  
**Length:** Year (10 credits)  
**Prerequisite:** English 3  
**Graduation:** Year 4 English requirement  
**College Prep:** Year 4 English (b) requirement

Advanced Placement Literature and Composition is equivalent to a college or university Freshman Literary Survey course and prepares students to take the Advanced Placement Literature and Composition exam.

**P-Science Fiction Literature** **Course #3205**

**Level:** 12  
**Length:** Year (10 credits)  
**Prerequisite:** English 1, 2 and English 3  
**Graduation:** Year 4 English requirement  
**College Prep:** Year 4 English (b) requirement

Science Fiction will focus on the reading, analysis, interpretation, and evaluation of science fiction literature in conjunction with current technological and scientific issues and with science fiction film. The class stimulates student interest in technology, fantasy, global thinking, and the future. This English elective provides access to alternative literature.

**English Language Development (ELD) 3** **Course #3162**

**Level:** 9-12  
**Length:** Year (double-blocked class 10 credits)  
**Prerequisite:** CELDT score 3 or Edge Placement  
**Graduation:** 10 credits English and 10 credits elective  
**College Prep:** English (b) requirement

English Language Development 3 is a course designated for English Learners who score a 3 on the CELDT test. ELD 3 will advance a student's oral, listening, reading and writing skills and enhance their academic vocabulary. The goal is to prepare English Learners for mainstream academic curriculum.

**P-Creative Writing** **Course #3170**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** English 1  
**Graduation:** Elective credit  
**College Prep:** Elective (g) requirement

Creative Writing is structured to build upon skills introduced in previous English courses. Focus is on the study of advanced composition, fiction, non-fiction, storytelling, poetry, and speech. The major project will be to produce a student literary magazine.

**P-Speech and Debate** **Course #3202**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** English 1, 2.5 GPA, or instructor approval  
**Graduation:** Elective credit  
**College Prep:** Elective (g) requirement

Speech and Debate is a one-year course in oral communication with emphasis on public speaking. Research, writing, and oral techniques needed to develop effective oral presentations, debates, and oral interpretation intersperse the course.

**P-Journalism** **Course #3190**

**Level:** 10-12  
**Length:** Year (10 credits); may be repeated for credit  
**Prerequisite:** English 1 or instructor approval  
**Graduation:** Elective credit  
**College Prep:** Elective (g) requirement

Journalism provides an introduction to journalistic writing, non-fiction literature, and newspaper production, including news gathering, layout, advertising, and business management. The course focuses on the theoretical basis for scholastic freedom of press, the responsibilities of high school journalists, exclusion of First Amendment freedoms, and journalistic ethics.

**P-Peace & Conflict Studies** **Course #3186**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** English 1 and World Cultures or World History  
**Graduation:** Elective credit  
**College Prep:** Elective (g) requirement

Peace & Conflict Studies explores the world of violent and nonviolent solutions. Through readings of prominent authors, students will learn the skills of negotiation and conflict resolution. Students learn to view global human rights as a part of their own cause, not something distinct from their personal life experience. Students learn why we need to end intolerance, racism, and violence in society. Topics like human rights, the environment, structural violence, justice, power, empathy, compassion, respect, tolerance, and freedom are covered.

**Poetry** **Course #3178**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Successful completion of prior English class  
**Graduation:** Elective Credit

Students explore the world of poetry, learning through a balance of formal study and creative writing, develop an appreciation for poetry and gain valuable experience in critiquing and analyzing literature. After learning a new element, student analyze published examples that employ the element engage in discussions and write their own poetry. Students share poetry in formal and informal readings and critique and analyze their own as well as their classmates writing.

# World Languages

## P-French 1 Course #3510

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

French 1 is a college-preparatory course that introduces students to the French language and culture. The course emphasizes basic communication skills, vocabulary building, reading and writing. A beginning pen pal program and active cultural experiences are included if possible. Students are able to relate to French teenagers' life through different media. French Internet sites are explored, and French is spoken a great deal of the time.

## P-French 2 Course #3520

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** French 1 or teacher recommendation  
**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

Students will continue to communicate more fully in oral and written French. Students are able to expand their communication skills through interviews, oral presentations and an e-mail correspondence with French classes in the France is possible. They also plan and write (in French) an itinerary for a trip to Paris. A grade C or better in previous French class will assure greater success in this class. Student speak French most of the time.

## P-French 3 Course #3530

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** French 2 or teacher recommendation  
**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

French 3 challenges students to speak, read and write at more advanced levels. Students "visit" French-speaking areas such as Africa, Canada, France, Switzerland, and Tahiti. They read about and discuss the culture and literature of these areas through various sources including the Internet. They write a journal and complete individual and group multimedia projects. Various contemporary folk and fairy tales are also part of the course of study. Students are encouraged to speak and write with greater fluency and detail. French is spoken most of the time in class.

## P-French 4 Course #3540

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** French 3 or teacher recommendation  
**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

French 4 challenges students to speak, read and write at an advanced level and to learn more complex grammatical construction. Students read short stories, plays and other French literature and write short compositions to gain language ability and literary understanding. Instruction only is almost exclusively in French with minimal clarification in English. Students complete individual and group projects using multimedia technology and continue learning about French culture, geography and history from various sources. A grade of C or better in previous French class will assure greater success in this class.

## P-German 1 Course #3550

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

German 1 is a college-preparatory course that introduces students to the German language. Students achieve basic proficiency in speaking, reading, writing and comprehension, and begin building a German vocabulary. Instruction is provided in German with clarification in English to assure student understanding. Students complete individual and group projects. Students explore German culture, geography and history through German books, periodicals and internet sites.

## P-German 2 Course #3560

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** German 1 or teacher recommendation  
**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

German 2 expands the student's ability to communicate in German. Students improve their skills in speaking, reading, writing, and comprehension and enrich their German vocabulary. Students begin learning about topics such as German film, fashion, and tourism. Students continue learning about culture, geography, and history from German-language books, periodicals, and Internet sites. A grade of C or better in previous classes will assure greater success.

## P-German 3 Course #3570

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** German 2 or teacher recommendation  
**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

German 3 challenges students to speak, read and write at an advanced level and to learn more complex grammatical construction. Students read short stories, plays and other German literature and write short compositions to gain language ability and literary understanding. Instruction is almost exclusively in German with only minimal clarification in English. Students complete individual and group projects using multimedia technology and continue learning about German culture, geography and history from various sources including the Internet.

## P-German 4 Course #3580

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** German 3 or teacher recommendation  
**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

German 4 challenges students to speak, read and write at an advanced level and to learn more complex grammatical construction. Students read short stories, plays and other German literature and write short compositions to gain language ability and literary understanding. Instruction is almost exclusively in German with minimal clarification in English. Students complete individual and group projects using multimedia technology and continue learning about German culture, geography and history from various sources including the Internet. Students in German 4 have the option of taking the German Advanced Placement examination.

## P-Spanish 1 Course #3610

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

Spanish 1 is an introduction to Spanish emphasizing basic vocabulary, grammar and sentence structure. Learning the basics of speaking and writing in Spanish could be integral to securing a better job in the future. It can also make travel in Spanish-speaking countries more enjoyable.

**P-Spanish 2** **Course #3620**

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** Spanish 1, or Spanish 1 in 8th grade or Spanish for Spanish Speakers I or instructor approval

**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

Spanish 2 students continue to practice speaking, reading, and writing in Spanish. They learn some practical conversational skills as well as learn about some countries and cultures where Spanish is spoken. Students may be asked to keep journals with short entries and incorporate what they have learned into short essays. A grade C or better in previous Spanish class will assure greater success in this class.

**P-Spanish 3** **Course #3630**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Spanish 2 or Spanish for Spanish Speakers II or instructor approval

**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

Students are challenged to read, write, and speak at more advanced levels. They read short stories and excerpts from Hispanic literature. They also write original compositions and conversations in Spanish, which may include informal productions of skits or the keeping of a journal. Hispanic culture is also interwoven into the course for greater cross-cultural understanding. Some new grammar is introduced and previously learned grammar is strongly reinforced. A grade C or better in previous Spanish class will assure greater success in this class.

**P-Spanish 4** **Course #3640**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Spanish 3 or Spanish for Spanish Speakers II or instructor approval

**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

Spanish 4 will continue expanding students' ability to communicate in Spanish. Students will continue increasing their vocabulary and reading and writing skills. They will also continue to learn more about the culture of the countries where Spanish is spoken.

**P-Advanced Placement (AP) Spanish Language** **Course #3642**

**Level:** 9 – 12  
**Length:** Year (10 credits)  
**Graduation:** Fine Arts/World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

This college-level course emphasizes Spanish for active communication, covering oral skills, reading comprehension, grammar, and composition. It develops useful language skills that can be applied to various activities and disciplines. It focuses on: comprehension of formal and informal spoken Spanish; acquisition of vocabulary; accurate reading of newspapers, magazines, and modern Spanish literature, composition of expository passages, and expression of ideas orally with accuracy and fluency. It provides extensive training in the organization and writing of compositions. A mandatory parent meeting is held Spring Semester.

**P-Spanish for Spanish Speakers I** **Course #3670**

**Level:** 9-12  
**Length:** Year Class (10 credits)  
**Prerequisite:** Native Spanish speaker  
**Graduation:** World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

This course is designed for fluent speakers in basic Spanish who need further development of academic Spanish. It emphasizes vocabulary development, listening comprehension, grammar, reading and writing skills. Students will be expected to read and analyze simple literature.

**P-Spanish for Spanish Speakers II** **Course #3676**

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** Native Spanish speaker. or complete Spanish for Spanish Speakers I course

**Graduation:** World Language requirement  
**College Prep:** 1 year World Lang. (e) requirement

This course is a continuation course of Spanish for Spanish Speakers I. Students continue to develop their skills in reading, writing, and speaking including writing an autobiography. Students study a variety of Hispanic literature (i.e. short stories, oral history, poetry and drama).

# ONE WORLD



## P-Algebra 1 Course #4630

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** Placement based on LUHSD criteria  
**Graduation:** Algebra 1 requirement  
**College Prep:** Math (c) requirement

Algebra 1 is a college preparatory, standards based math course built around problems designed to teach concepts, short writing assignments, and routine review necessary to retain skills. It is the goal of this course to empower students to use mathematics as a problem-solving tool and to demonstrate the importance of mathematics in their futures. A grade C or better in previous math class will assure greater success in this class.

## P-Geometry Course #4670

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra 1 or Intensified Algebra  
**Graduation:** Geometry requirement  
**College Prep:** Math (c) requirement

Geometry is a college preparatory, standards based math course built to not only increase student's understanding of geometry, but to also act as an important transition from basic Algebra 1 to Algebra 2. A grade C or better in previous math class will assure greater success in this class.

## Geometry Support Course #4501

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** Teacher Recommendation  
**Graduation:** Elective requirement

Geometry Support is an elective course designed for students currently enrolled in Geometry who need additional support.

## P-Algebra 2 Course #4690

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra 1 or Intensified Algebra and Geometry  
**Graduation:** 1 year Math requirement  
**College Prep:** Math (c) requirement

Algebra 2 is a second year course in algebra that reviews and broadens algebraic concepts introduced in Algebra 1 and Geometry. It meets university requirements and includes linear and quadratic equations, graphing, progression, real and complex number systems, relations and functions (exponential, logarithmic, and polynomial). A grade C or better in previous math classes will assure greater success in this class.

## P-Pre-Calculus Course #4710

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra 2 grade C or better  
**Graduation:** 1 year Math requirement  
**College Prep:** Math (c) requirement

Pre-Calculus is a course that includes a semester of trigonometry, and a semester of math analysis. Studies of functions, logarithms, analytical geometry, mathematical inductions, and limits prepare students for Calculus. Students enrolled in this class are encouraged to own a graphing or scientific calculator. A grade C or better in previous math classes will assure greater success in this class.

## P-Advanced Placement (AP) Calculus A/B Course #4720

**Level:** 10-12  
**Length:** Year Class (10 credits)  
**Prerequisite:** Pre-Calculus grade C or better  
**Graduation:** 1 year Math requirement  
**College Prep:** Math (c) requirement

Calculus A/B is a college level course that is designed for the motivated math student who will likely pursue a career in a math-related field. Calculus extends the study of limits, functions and derivatives, considers applications of the derivative, including velocity and optimization, studies of integration including exponential functions, and applications of the definite integral, including volumes of solids of revolution and areas of surfaces of revolution. The course prepares students to take the Advanced Placement examination. A mandatory parent meeting in the spring prior to the course will be scheduled. Students may choose to take Calculus without the AP distinction. A grade C or better in previous math classes will assure greater success in this class.

## P-Statistics Course #4740

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra 2  
**Graduation:** 1 year Math requirement or elective credit  
**College Prep:** Math (c) requirement

Statistics is a college prep course designed for juniors and seniors who have completed Algebra 2 and would like to learn how to collect, analyze, and interpret data correctly. The basic structure of the class will involve group work and projects such as surveys, and analysis of the lottery, gambling probabilities, and business and marketing applications. Students enrolled in this class are encouraged to own a graphing calculator or one that does statistical calculations. A grade C or better in previous math classes will assure greater success.

## P-AP Statistics Course #4750

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra 2  
**Graduation:** 1 year Math requirement or elective credit  
**College Prep:** Math ("c") requirement. Student will receive an extra grade point bonus for grades A-C

AP Statistics is designed for college bound students who have completed Algebra II. This course is intended to explain the uses of statistics and its role in processing information contained in reports, scientific journals, political coverage, and even the daily newspaper. Students will be encouraged to use technology to relieve the drudgery of formula crunching, and instead students will spend more time selecting a proper model, describing and interpreting data, and displaying the results. Course scope and sequence will prepare students for the AP exam in May. A grade C or better in previous math classes will assure greater success in this class.

## Applied Career Mathematics Course #4605

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra 1 or Intensified Algebra; Geometry 1  
**Graduation:** 1 year Math requirement

Applied Career Math is a course that integrates hands-on laboratory activities, cooperative learning opportunities and video programs with text materials that teach important math concepts by emphasizing problem-solving and decision-making through workplace applications. The students will investigate, construct and apply algebra, geometry, statistics and probability skills through contextual hands-on learning. This course uses the fundamental tools of basic arithmetic to solve every day business problems.

## P-Financial Algebra Course #0081

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra 1  
**Graduation:** 1 year Math requirement

Financial Algebra is a mathematical modeling course that is algebra-based, applications-oriented, and technology-dependent. The course addresses college preparatory mathematics topics from Advanced Algebra, Statistics, Probability, Pre-Calculus, and Calculus under seven financial umbrellas: Banking, Investing, Credit, Employment and Income Taxes, Automobile Ownership, Independent Living, and Retirement Planning and Household Budgeting. It provides students a motivating, young- adult centered financial context for understanding and applying the mathematics they are guaranteed to use in the future, and is thusly aligned with the recommendations of the Common Core State Standards.

## P-Algebra II – Pre-calculus Course#

**Level:** 10-12  
**Length:** Year Class (10 credits)  
**Prerequisite:** Successful completion of Algebra I & Geometry  
**Graduation:** 1 year Math requirement  
**College Prep:** Math © requirement

Upon completion of this course, students are prepared to take AP Calculus and other higher-level math courses. This course compacts the common core algebra 2 standards with the common core ( + ) pre-calculus standards. Function concepts covered includes polynomial, rational, exponential, logarithmic, and trigonometric functions along with transformation of functions using a parent function. Additional content covered includes conics, analytic trigonometry, complex number theory

(DeMoivre's Theorem), introduction to vector theory, matrices and determinants, sequences, series, binomial theorem, counting principles, probability, and statistics. Finally, the course assignments will emphasize use of the "Eight Mathematical Practices". Students will make sense of problem situations, solve higher order thinking problems, derive key theorems, use technology where appropriate, work in groups to develop teamwork skills, and demonstrate procedural fluency in their responses.

## Physical Education

### 9<sup>th</sup> Grade Core Physical Education Course #5750

**Level:** 9  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** 9th grade Physical Education requirement  
 Physical Education is required in Grade 9. All Freshman Physical Education students take the California Physical Performance and Health Related Test during the third quarter. Some other things covered are: orientation, physical fitness, field games, weight training, plyometrics, wrestling, aquatics, various team sports, steroid and nutrition education. Students must complete the required standards and benchmarks (9th grade core Physical Education).

### 10<sup>th</sup> Grade Core Physical Education Course #5760

**Level:** 10  
**Length:** Year (10 credits) can be repeated  
**Prerequisite:** 9<sup>th</sup> Grade Core Physical Education  
**Graduation:** 10<sup>th</sup> grade Physical Education requirement  
 The tenth grade program builds on the basic foundation of the ninth grade core program. Students must complete the required standards and benchmarks for the 10th grade core P.E. program.

### Advanced Athletic Skills Course #5662

**Level:** 10-12  
**Length:** Semester (5 credits)  
**Prerequisite:** PE 9; teacher recommendation  
**Graduation:** Elective credit  
 Advanced Athletic Skills course will focus on the in and out-of-season physical training for the student athlete and is designed to help improve performance and minimize the potential for injury. Training will include progressive plyometric techniques, agility drills, flexibility exercises and core strengthening techniques. Health and nutritional issues specific to the student athlete will also be addressed.

### Baseball/Softball Tactics Course #5668

**Level:** 10-12  
**Length:** Semester (5 credits); repeat for credit  
**Prerequisite:** None  
**Graduation:** Elective credit (Does not replace core PE classes)  
 Students will learn proper technique and tactics for baseball/softball, including conditioning, weight training, defensive, offensive, base running and hitting skills.

### Basketball Techniques and Tactics Course #5674

**Level:** 10-12  
**Length:** Semester (5 credits); repeat for credit  
**Prerequisite:** PE 9; teacher recommendation  
**Graduation:** Elective credit  
 Basketball Techniques and Tactics is a designed physical education elective focusing on basketball. Throughout the semester students will learn and practice the game of basketball with the goal of learning lifelong athletic skills through basketball participation. In addition, students will learn the history of basketball to increase knowledge base.



**Level:** 11-12  
**Length:** Semester (5 credits)  
**Prerequisite:** PE 9 and PE 10; transportation waiver; and teacher recommendation  
**Graduation:** Elective credit

Bowling Fundamentals will be an introduction to the discipline of Physical Education through the sport of bowling. The course will include a historical examination, styles of play and strategies of the sport. Students will strive to develop basic skills including approach, types of deliveries, strategy, etiquette, and league play associated with the sport of bowling. Adaptations related to gender, age and physical conditioning will be addressed.

### Sculpt and Tone/Fitness in Motion Course #5794

**Level:** 10-12  
**Length:** Semester (5 credits); repeat for credit  
**Prerequisite:** PE 9 and PE 10  
**Graduation:** Elective credit  
 Students will be able to participate in aerobics, Tae Bo, yoga, walking, running and body shaping. Students will focus on setting personal fitness goals by tracking progress through a personal portfolio.

### Team Sports Course #5790

**Level:** 10-12  
**Length:** Semester (5 credits); repeat for credit  
**Prerequisite:** PE 9 and PE 10  
**Graduation:** Elective credit  
 Students in team sports develop skills to play volleyball, football, softball, ultimate Frisbee, soccer and basketball.

### Walking for Fitness Course #5676

**Level:** 10-12  
**Length:** Semester (5 credits); repeat for credit  
**Prerequisite:** PE 9 and teacher recommendation  
**Graduation:** Elective credit  
 This is a low-impact cardiovascular fitness class designed to improve overall fitness, promote weight management, improve nutritional habits, and explore the benefits of walking as an aerobic activity.

### Strength and Fitness Course #5792

**Level:** 10-12  
**Length:** Semester (5 credits); repeat for credit  
**Prerequisite:** PE 9 and PE 10  
**Graduation:** Elective credit  
 Students focus on toning and building muscle through weight training, fitness, and speed development.

### P-Athletics Management Course #5660

**Level:** 10-12  
**Length:** Year (10 credits); repeat for credit  
**Prerequisite:** Teacher recommendation  
**Graduation:** Elective credit  
**College Prep:** Elective (g) requirement  
 Athletics Management is a course which introduces students to the skills necessary for success in the athletic world. Students will learn steps necessary to run effective athletic programs and events. Course topics include philosophy, legal issues, game management including incorporation of technology such as press releases and webcasting, athletic field and physical plant management, and athletic survey of middle school, high school, college, and professional programs. Students will participate in a variety of projects throughout the course which will enhance the overall athletic and academic experience of the campus.

### Yoga Plus Course #6007

**Level:** 10-12  
**Length:** Semester (5 credits)  
**Prerequisite:** None  
**Graduation:** Elective credit  
 The YOGA portion of this course will focus on the basics of yoga, breath work and stress management. Yoga styles will include Bikram, Vinaysa Flow and Hatha. Non-religious yoga philosophy and yoga history will be introduced. The PLUS portion of this class will include visual and performance art explorations that emphasized health and wellbeing. Students will need a yoga mat and loose non-constrictive, non-revealing clothing.

*Students must successfully complete a full year of both 9th Grade Core and 10th Grade Core Physical Education to meet the graduation requirement. After successful completion of these two years, students may select upper level P.E. classes as elective classes. The Liberty Union High School District Standards and Benchmarks are an integral part of the CORE Physical Education Classes. All Physical Education students are required to wear designated PE clothing. PE Clothes may be purchased at Walk Thru or in the Freedom Student Store.*

## Science: Life

### P-The Living Earth Course #5020

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Life Science requirement  
**College Prep:** Life Science lab (d) requirement

The Living Earth course, based on the Next Generation Science Standards, explores relationships between the living and nonliving components of Earth's systems. By using science and engineering practices, cross-cutting disciplinary concepts, and evidence from experiments, research, and observations, students will learn how to formulate questions, evaluate claims, and develop models to make interpretations and investigate the natural world. Topics will include: Ecosystems Interactions and Energy, History of Earth's Atmosphere: Photosynthesis and Respiration, Evidence of Evolution, Inheritance of traits, Structure, Function, and Growth (from cells to organisms) and Ecosystem Stability and the Response to Climate Change. The Living Earth course is replacing the Biology course and is required for graduation.

### P-Advanced Placement (AP) Biology Course #5010

**Level:** 11-12  
**Length:** Year (10 credits) Student will receive an extra grade point bonus A = 5 on a 4 point scale  
**Prerequisite:** Successful completion of Biology/Living Earth or Anatomy/Physiology  
**Graduation:** Fulfills 1 year of the 2 year science requirement  
**College Prep:** Life Science lab (d) requirement

AP Biology is a college level course designed for the advanced science student who is likely to pursue a career in a science-related field. This course is the equivalent of a college introductory biology course and completes preparation for the Advanced Placement Biology examination. There are eight units in AP Biology: Chemistry of Life, Cell Structure & Function, Cellular Energetics, Cell Communication & Cell Cycle, Heredity, Gene Expression and Regulation, Natural Selection, and Ecology. AP Biology expands on knowledge that the students have gained in their previous science courses. This course includes extensive use of modern biological research technology.

### P- Biotechnology Course #5041

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Completion of one year of Chemistry  
**Graduation:** Elective credit  
**College Prep:** Life Science lab (d) requirement

The ROP biotechnology course is designed to prepare and interest students in basic laboratory techniques and introduce them to concepts and beginning competency in the field of bioscience. The bioscience industry includes agricultural biotechnology and pharmaceutical companies, as well as clinical and research laboratories in hospitals, universities, government, and independent settings. The course is divided into four parts. Each part will build on and interact with the others. Students will learn how to document and record their work in a research notebook. Students will begin to use and analyze research publications and popular scientific literature (printed materials and Internet search). This course will give students a head start in post-secondary microbiology, genetics molecular biology, biochemistry, and immunology courses.

### P-Anatomy & Physiology Course #5060

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Biology/Living Earth; Chemistry in the Earth Systems recommended  
**Graduation:** Life Science requirement  
**College Prep:** Life Science lab (d) requirement  
**Articulation:** LMC BIOSC-030 (4 credits)

Anatomy & Physiology is a one-year lab-oriented course, which is devoted to the study of the human body systems. Each system is discussed in relationship to its structure and function. Physical and mental health are given major consideration with respect to body functions, and all systems are demonstrated to interrelate in the total functioning of the human body.

### Zoology Course #5080

**Level:** 10-12  
**Length:** Semester (5 credits)  
**Prerequisite:** Biology/The Living Earth  
**Graduation:** Elective credit

Zoology is a one semester course designed to provide students with a general understanding of the animal kingdom, including the following: sponges & coelenterates; flatworms, rotifers, and roundworms; mollusks; segmented worms; arthropods; insects and echinoderms; fishes, amphibians; reptiles; birds; and mammals.





## P-Chemistry in the Earth Systems Course #5140

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra I, The Living Earth, Biology or Sustainable Ag Biology  
**Graduation:** Physical Science requirement  
**College Prep:** Phys. Science lab (d) requirement

Chemistry in the Earth System is a year-long course designed to incorporate phenomena-based learning with real-world applications. It integrates the concepts of Chemistry and Earth science linking cross-cutting concepts to make them more relevant to the students. The course is aligned with the Next Generation Science Standards (NGSS) that have been adopted by our state. The course encompasses the following major areas in a storyline format: Combustion, Heat and Energy in the Earth System, Atoms, Elements, and Molecules, Chemical Reactions, Chemistry of Climate Change, and the Dynamics of Chemical Reactions and Ocean Acidification. The laboratory portion of the course will correlate with the instructional units rounding out the course.

## P-Advanced Placement (AP) Chemistry Course #5160

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Chemistry and Algebra 2  
**Graduation:** Physical Science requirement  
**College Prep:** Phys. Science lab (d) requirement

AP Chemistry is a rigorous college level Chemistry course designed to prepare students to take and pass the AP Chemistry exam. The class emphasizes concepts of chemistry, mathematical problem solving skills applied to chemistry problems, critical thinking skills utilized in class and in written assignments, and hands-on experiences. Laboratory activities are a major part of this class. A mandatory parent meeting will be held in the Spring Semester.

## P-Physics in the Universe Course #5165

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Geometry (Algebra 2 preferred)  
**Graduation:** Physical Science requirement  
**College Prep:** Phys. Science lab (d) requirement

The sequence of this course is based on a specific storyline about renewable energy and climate change. Both physical science and earth science emphasize how discoveries in their discipline influence society, but the two differ in which aspects of society they focus upon. Physical science emphasizes society's use of technology while Earth and space science emphasize humanity's impact on natural systems and the other way around, which included California's Environmental Principles and Concepts. Students will explore phenomena such as thunderstorms & weather, geothermal vents, electricity production, earthquakes, and a teacher-chosen phenomenon dealing with the electromagnetic spectrum.

## P-Advanced Placement (AP) Physics 1 Course #5185

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Physics and concurrent enrollment in Pre-Calc recommended or teacher recommendation for concurrent enrollment in Algebra 2  
**Graduation:** Physical Science requirement  
**College Prep:** Phys. Science lab (d) requirement

Advanced Placement Physics is a traditional college-level introductory course that provides a systematic understanding of the fundamental principles of physical phenomenon that governs chemical, biological, terrestrial and astronomical processes. The course provides a foundation for the intensive studies of most of the other sciences and for an understanding of many technological applications of sciences. Major areas of content include Newtonian mechanics, work and energy, wave motion, light and optics, electricity and magnetism, heat and thermodynamics, fluid mechanics, and atomic and nuclear physics. Science attitudes, thinking processes, and skills in applications of science technology to social problems and personal decision-making are emphasized. The course qualifies as a laboratory science in meeting UC entrance requirements. This course is an elective, but may be used to fulfill one year of the two-year science requirement. A strong background in algebra and trigonometry, especially manipulating functions, is needed. The course prepares students to take the Advanced Placement examination. A mandatory parent meeting will be held in the Spring Semester.

## P-Environmental Science Course #5090

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra and Biology/The Living Earth  
**Graduation:** Fulfills Physical Science Lab requirement  
**College Prep:** Fulfills UC/CSU Physical Science lab (d) requirement

How are humans affecting the planet? What can we do to improve our chances of survival? Environmental Science investigates the cause and effect relationships of environmental issues both in our local community and on a global scale. Topics range from an understanding of ecosystems, dynamic interaction of air, water, atmosphere and climate, food, biodiversity, energy, waste, and population growth. The central focus is on responsible growth and use of resources for a sustainable future. This course would potentially prepare students for AP Environmental Science.

## P-ROP AP Environmental Science Course #5091

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra and Biology/The Living Earth, recommend Chemistry in the Earth Systems

**Graduation:** Fulfills Physical Science Lab requirement  
**College Prep:** Fulfills UC/CSU Physical Science lab (d) requirement

**ROP AP Environmental Science is a college level course designed for the advanced science student who is likely to pursue a career in a science-related field. The ROP program requires additional instruction and research about a wide array of careers relating to Environmental Science. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. This course prepares students to take the Advanced Placement examination. A mandatory parent meeting is held in the Spring Semester.**

## Search for Extraterrestrial Life (SETL) Course #5005

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Biology/The Living Earth, Geometry  
**Graduation:** Elective credit

Where in the solar system would you go to find alien life? Once you've identified a location, how would you determine that life existed there? The goal of this course is to utilize a team-based, collaborative framework to develop a spacecraft that would be capable of traveling to a non-earth solar system body to test for the presence of life. Students will apply their knowledge of biology, earth science, engineering, design and mathematics to achieve this goal in an interactive environment. This course was developed in partnership with the Patriots Jet Team Foundation.

## P-Forensic Science Course #5125

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Biology/The Living Earth and Chemistry in the Earth Systems  
**Graduation:** Elective credit  
**College Prep:** Elective (g) requirement

Forensic science is a broad survey of the scientific skills, disciplines and training used by forensic specialist in law enforcement, business and industry. The laboratory experience in both of the pre-requisites classes is necessary for a student taking Forensic Science. This is a hands-on class where students will gain experience in investigative techniques used by real forensic investigators.

## P-World Cultures and Geography Course #5255

**Level:** 9  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Elective credit  
**College Prep:** History (a) requirement

This course enhances student's understanding of the global environment in which they live. During the year-long course, emphasis is placed on students acquiring knowledge of world cultures, world problems, basic geography, human migration, the humanities, critical thinking skills, reading strategies, study skills, vocabulary development, writing ability, and speaking for the purpose of debate and presentation. The program integrates a variety of teaching methods that requires students to engage in both group and individual learning.

## P-World History Course #5240

**Level:** 10  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** World History requirement  
**College Prep:** History (a) requirement

Students have an opportunity to compare and contrast philosophies, languages, literature, religion and the arts of world cultures. The students become more knowledgeable about the effects of geography upon the political and economic development of cultures.

## P-U.S. History Course #5280

**Level:** 11  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** U.S. History requirement  
**College Prep:** History (a) requirement

United States history is designed to help students examine major turning points in American history in the twentieth century. Throughout the year students will examine American culture including religion, literature, art, drama, architecture, education, and the mass media. The year begins with a selective review with an emphasis on the nation's beginning including the main influences in the founding of the United States and the caused and consequences of the Civil War.

## P-American Government Course #5330

**Level:** 12  
**Length:** Semester (5 credits)  
**Prerequisite:** None  
**Graduation:** American Government requirement  
**College Prep:** History (a) requirement

American Government is a semester course designed to help students develop an understanding of the institutions of American government. Students examine and compare and contrast the development and processes of governments in both the United States, and to a lesser extent, the world. Students also examine related major issues of the world today. Emphasis is placed on the development of social participation skills and civic responsibility.

## P-Economics Course #5335

**Level:** 12  
**Length:** Semester (5 credits)  
**Prerequisite:** None  
**Graduation:** Economics requirement  
**College Prep:** Elective (g) requirement

This semester course is designed to deepen students' understanding of the economic problems and institutions of the nation and world in which they live. It will provide them with the knowledge and skills needed to make reasonable decisions on economic issues as citizens, workers, consumers, business owners, managers, and members of civic groups. The course is primarily a course in social science enriching students' understanding of the operations and institutions of economic systems rather than a course in household or business management.

## P-World Studies Program Course #1429

**Level:** 10  
**Length:** Year (double-blocked class 20 credits)  
**Prerequisite:** None  
**Graduation:** English 10 and World Hist requirement  
**College Prep:** English 10 (b) and World Hist (a) requirement

World Studies integrates English 2 and World History, and explores world culture and the major turning points in world history to make connections between real life history and American literature. The course will review the rise of democracy through nation building of modern day.

## P-American Studies Program Course #1439

**Level:** 11  
**Length:** Year (double-blocked class 20 credits)  
**Prerequisite:** None  
**Graduation:** English 11 and US History requirement  
**College Prep:** English 11 (b) and US History (a) requirement

American Studies is an integrated English 3 and U.S. History course designed to explore American culture and the major turning points in U.S. history and to make connections the past, between real life and American literature. The course reviews the rise of democracy and the industrial and technological transformations.

## P-Advanced Placement (AP) World History Course #5270

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** World History requirement  
**College Prep:** History (a) requirement

World History is a college level course designed to sensitize students to the students to the contributions and growing interdependence of the various peoples and cultures of our world. The course covers time period from 1000 to present with review of 500-1000. A mandatory parent meeting is held in the Spring Semester.

## P-Advanced Placement (AP) U.S. History Course #5290

**Level:** 11  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** U.S. History requirement  
**College Prep:** History (a) requirement

The study of U.S. History helps students learn about their American heritage and understand the role of their nation in the world. This course is the equivalent to college or university level U.S. History. The course prepares students to take the Advanced Placement examination. A mandatory parent meeting is held in the Spring Semester.

## P-Advanced Placement (AP) American Government Course #5295

**Level:** 12  
**Length:** Semester (5 credits)  
**Prerequisite:** None  
**Graduation:** American Government requirement  
**College Prep:** History (a) requirement

This college level AP Government class will prepare students to take the AP Exam in May as well as meet the graduation requirement of 5 units in American Government. The course will emphasize reading of political philosophy as well as essay writing in specific content areas related to not only American governmental systems but also other governmental systems as necessitated by the College Board. Students successful in passing the AP Exam will receive advanced placement upon entering college. A mandatory parent meeting is held in the Spring Semester.

## P-Advanced Placement (AP) Economics: Macro Course #5365

**Level:** 12  
**Length:** Semester (5 credits)  
**Prerequisite:** None  
**Graduation:** Economics requirement  
**College Prep:** Elective (g) requirement

This class prepares students to take the AP Exam in May as well as meet the graduation requirement of 5 units in Economics. The course will emphasize reading of economic theory as well as essay writing in specific content areas related to not only the capitalist system but also other economic systems as necessitated by the College Board. Students passing the AP Exam will receive advanced placement upon entering college. A mandatory parent meeting is held Spring Semester.

## Special Education

### P-Psychology Within Society Course #5396

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Elective credit  
**College Prep:** Elective (g) requirement

This entry-level course introduces students to the systematic and scientific study of the behavior and mental processes of individuals and group behavior. Students will compare and contrast the major psychological paradigms, evaluate historical and sociological determinants, and know and perform various tests, measures, assessments. Recommended for Professional Human Development Academy participants, but open to all interested students.

### P-Advanced Placement (AP) Psychology Course #5397

**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Elective credit  
**College Prep:** Elective (g) requirement

AP Psychology covers the equivalent of a college freshman Psychology course and prepares students to take the Advanced Placement examination. The students investigate and acquire knowledge in the basic foundations of scientific psychology. Through varied modalities, students compare and contrast the major schools of thought from a historical and sociological perspective. The students examine different methods of test, measures, and assessment with emphasis on bias related issues: cultural, ethnic, genre, contemporary controversies are explored. The students analyze ethical concerns: objectively and subjectively. Particular emphasis is placed on proper APA writing format as well as extensive reading, both primary source and supplemental literature, essay writing, intense group interaction, and individual presentations involving critical reasoning skills. The students explore possible career choice within the psychological community and evaluate current trends, which may affect future occupations. A mandatory parent meeting is held in the Spring Semester.

### P-Advanced Placement (AP) Human Geography Course #5397

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Elective credit  
**College Prep:** History (g) requirement

Human Geography is the study of how and why people move and how they use the earth. The purpose of the AP course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

## English Learners

Designated classes are specially designed for English Learners, usually Level 3 and sometimes Level 4. These courses meet the state required standards for a particular subject area and earn the same number of credits toward graduation.

Designated classes focus not only on the particular subject but also focus on English Language development skills that will prepare the student to successfully transition into the mainstream curriculum. Designated courses are open to students in grades 9-12. Designated class offerings change on a yearly basis. More information can be obtained through the Counseling Department in regard to what courses are currently being offered.

We offer an ELD four-block of classes designed for English Learners at CELPAC Level 3 or below. It is open to any grade level, but usually students in grades 9 or 10 are placed in this block of classes. Students who successfully complete these four classes will earn credit for two years of English requirements (20 credits) and also earn 20 elective credits.

Special education staff meet with other school personnel and parents to decide appropriate high school supports and services for students with disabilities. Each student's disability is reviewed with placement and services based on the student's unique specific needs. All placements and services must have approval of the IEP team and an Individualized Educational Plan must be written before students receive any special education support or related services.

The Excel Program provides services to students with special needs working towards earning a high school diploma through the instructional support model. The instructional support may be provided to students within a general or special education setting based on the student's level of need and goals. Examples of instructional support include collaboration between general and special education teachers, co-taught classes with both general and special education teachers providing instruction, special education classes utilizing modified core curriculum, and specialized remediation classes targeting a specific area (i.e. reading, math, transition).

The Life Skills Program is designed to support students receiving specialized academic instruction with an emphasis on functional academics. Core instruction includes: mathematics, language arts, science, health, and social science. Curriculum is delivered based on IEP goals and modified to accommodate a variety of learning styles and abilities. Student engagement and making sense of their world is key in instruction. Skills developed include: money management, telling time, measurement, and reading and comprehending functional text. Additional emphasis is placed on developing social and independent living skills and incorporating community based instruction providing students with real life experiences. Student participate in general education classes as determined by their IEP teams. Upon completion of the program, students participate in Commencement and are awarded a Certificate of Completion.

The Matrix Program is designed to support students who require additional social-emotional and mental health support. Students receive instruction in a counseling enriched small group environment. Student may have one class or several classes in the Matrix Program depending on the student's level of need. Group or individual counseling is embedded in the program.

## Non-Departmental

### Health Course #2700

**Level:** 9-12 (Grade 10 recommended)  
**Length:** Semester (5 credits)  
**Prerequisite:** None  
**Graduation:** Health requirement

This course is designed to help students examine their lifestyles, select goals, and make plans to achieve and maintain optimum health. The course focuses on choosing behaviors, which help prevent illness and accidents, promote health for ones' self and others, and improve the quality of the environment. The course promotes responsible decision-making and provides students with life management skills they can use for the rest of their lives.

### Acrobatics Plus Course #6008

**Level:** 9-12  
**Length:** Semester (5 credits); repeat for credit  
**Prerequisite:** Cheer or dance team or teacher approval  
**Graduation:** Elective credit

This course focuses on dance and acrobatic skills. Students will learn and practice the basic, intermediate and advanced dance, partner stunting and basic tumbling skills with the goal of learning and improving dance and acrobatic skills. Students also learn the history of dance.

### College Entrance Test Review/SAT/ACT Course #7441

**Level:** 10-12  
**Length:** Semester (5 credits); repeat to 15 credits  
**Graduation:** Elective credit. May be repeated

Students in this class receive specific instruction to help prepare them for the SAT and ACT tests required for college entrance. In addition, students will receive instruction to help them produce superior personal statements, the essays required by many universities for entrance.

**Student Leadership** **Course #7480**

**Level:** 9-12  
**Length:** Year (10 credits)  
**Prerequisite:** Application process  
**Graduation:** Elective credit

Students learn the skills to become inspiring leaders: effective communication skills, team-building, working well with teams, running effective meetings, conflict resolution, negotiations, overcoming obstacles, creative problem-solving, creating a vision, setting goals, and implementing plans. Students orchestrate and carry out school wide events and activities and contribute to the building of our community. Students are selected through a recommendation and screening process

**Connect Crew/Link Crew** **Course #7482**

**Level:** 10-12  
**Length:** Year (10 credits); repeat to 30 credits  
**Prerequisite:** None. Teacher recommendation and interview  
**Graduation:** Elective credit

The Connect Crew class is based upon seven units of study developed by the Boomerang Project. Connect Crew is about more than events: it is about helping freshmen achieve success and it is that initial freshmen throughout the school year. Connect Crew is a student centered mentoring class. This class engages, develops and trains students to be leaders and mentors. Connect Crew is about facilitating a smooth transition both socially and academically for all.

**PUSH (Pursuing University Skills in H.S.)** **Grade 9 Course #7371****Grade 10 Course #7372****Grade 11 Course #7373****Grade 12 Course #7374**

**Level:** 9-12  
**Length:** Year (10 credits); repeat to 40 credits  
**Prerequisite:** Middle School AVID and/or application process  
**Co-Prerequisite:** Enrollment in college preparatory courses  
**Graduation:** Elective credit  
**College Prep:** Elective (g) requirement

Pursuing University Skills in High School (PUSH) is an elective course that prepares students for entrance into four-year colleges. There is an emphasis on analytical writing, preparation for college entrance and placement exams, study skills and test taking, note taking, and research.

**Study Hall** **Semester 1 Course #7680****Semester 2 Course #7689**

**Level:** 9-12  
**Length:** Semester (0 credits)

Study Hall provides the opportunity for students to do their homework, study for exams, or work on class projects during the school day. Textbooks are available to the students along with limited supplies for projects such as markers, colored pencils, paper, calculators, etc. The goal of study hall is to provide an environment that encourages learning and study skills. The expectation is for all freshmen to take a study hall period to ensure academic success.

**Staff Assistant** **Course #8010**

**Level:** 11-12  
**Length:** Semester (5 credits); repeat to 30 credits

**Study Hall**  
**Prerequisite:** 2.0 GPA with counselor, instructor, or administrator approval

**Graduation:** Elective credit  
**Grade:** Pass or Fail

Students in these courses will work under teacher or administrator supervision in a work or lab setting within the school environment.

**Driver Education/Decision Making** **Course #2830**

**Level:** 10-12 (Grade 10 recommended)  
**Length:** Semester (5 credits)  
**Prerequisite:** Age 16 by end of semester  
**1st semester:** At least 15.5 yrs. by start of semester  
**2nd semester:** At least 15.5 yrs. by start of semester  
**Graduation:** Elective credit

Driver Education: students study the vehicle code and safe driving practices to prepare for the state's written exam. Decision Making: students explore career pathways and decisions that will lead to a successful career. Students also learn how to use the Career Center.

**Yoga Plus** **Course #6007**

**Level:** 10-12  
**Length:** Semester (5 credits)  
**Prerequisite:** None  
**Graduation:** Elective credit

The YOGA portion of this course will focus on the basics of yoga, breath work and stress management. Yoga styles will include Bikram, Vinaysa Flow and Hatha. Non-religious yoga philosophy and yoga history will be introduced. The PLUS portion of this class will include visual and performance art explorations that emphasized health and wellbeing. Students will need a yoga mat and loose non-constrictive, non-revealing clothing.

**P-Advanced Placement (AP) Seminar** **Course #3174**

**Level:** 10-12  
**Length:** Year (10 credits)  
**Prerequisite:** Taken at least one AP course in 9<sup>th</sup> or 10<sup>th</sup> grade Concurrently (recommended)  
**Graduation:** Elective Credit

**College Prep:** History (g) requirement

This is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues through analysis of divergent perspectives. The course utilizes an inquiry framework to include: reading and analyzing articles, research studies, foundational/literary/philosophical texts, listening and viewing speeches/broadcasts/personal accounts, and experiencing artistic works/performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral/visual presentations.

**P-Advanced Placement (AP) Research** **Course #0066**

**Level:** 12  
**Length:** Year (10 credits)  
**Prerequisite:** Students have successfully completed the AP Seminar course

**Graduation:** Elective Credit  
**College Prep:** Elective (g) requirement

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes and curate the artifacts of their scholarly works through a process and reflection portfolio. The course culminates in an academic paper of 4,000-5,000 words (accompanied by a performance, exhibit or product where applicable) and a presentation with an oral defense

**Foundations for Success I** **Course #7457**

**Level:** 9-10  
**Length:** Semester (5 units)  
**Prerequisite:** None  
**Graduation:** Elective Credit

This course is designed to support a successful transition into high school and, ultimately, into adulthood through better understanding of the value of education, specifics of high school, academic/college and career options and information, cost of living as regards to financial independence, steps of maturation, over-coming obstacles, time-management, self-motivation, and SMART goal setting.

**Skills for Living** **Course #7450**

**Level:** 9-12  
**Length:** Semester (5 units)  
**Prerequisite:** Counselor, Administrator, or Parent Request  
**Graduation:** Elective Credit

Skills for Living is a one-semester course that is devoted to helping students gain the knowledge, skills, attitudes, and self-discipline they need to learn how to learn. Areas of focus in the course include the time management and organizational skills, note-taking and reading skills, memory improvement, and test-taking skills. This course is aimed at improving student's self-management, responsibility, decision-making and problem-solving. Extensive in-class exercises will be supplemented by library work and homework assignments.

**P-AP Seminar** **Course #3174**

<b>Level:</b>	<b>10-12</b>
<b>Length:</b>	<b>Year (10 credits)</b>
<b>Prerequisite:</b>	<b>Have taken or concurrently taking an Advanced Placement course. (Recommended)</b>
<b>Graduation:</b>	<b>Elective credit</b>
<b>College Prep:</b>	<b>Elective (g) requirement</b>

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using the inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiences artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as a part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

**P-AP Research** **Course#3176**

<b>Level:</b>	<b>11-12</b>
<b>Length:</b>	<b>1 Year (10 credits)</b>
<b>Prerequisite:</b>	<b>Successful Completion of AP Seminar</b>
<b>Graduation:</b>	<b>Elective Credit</b>
<b>College Prep:</b>	<b>Elective (g) requirement</b>

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question.