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 seven classes a year and to earn, in four 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
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 course request form
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 balancing classes. Requests for schedule changes will generally only be granted for the following reasons:

1. **Level Changes**: for example, Algebra 2 to Algebra 1, 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 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**: for students in the Freedom library Monday - Thursday 3:15 – 4:45
- **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**: parents can look at student grades by enrolling in parent portal at **https://parents.luhsd.net** a student verification code is needed and is available in student’s office
- **Study Hall**: available any period and students can get additional help in multi-purpose room
<table>
<thead>
<tr>
<th>Graduation Requirements</th>
<th>1</th>
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</thead>
<tbody>
<tr>
<td>UC &amp; CSU Subject Requirements</td>
<td>2</td>
</tr>
<tr>
<td>a-g Approved Course List</td>
<td>3</td>
</tr>
<tr>
<td>NCAA Approved Course List</td>
<td>4</td>
</tr>
<tr>
<td>Four-Year Plan Samples</td>
<td>5</td>
</tr>
<tr>
<td>Four-Year Plan Worksheet</td>
<td>6</td>
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<tr>
<td>Athletic Programs</td>
<td>7</td>
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<td>Academic Honors</td>
<td>8</td>
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<tr>
<td>Core, Academy, and ROP Programs</td>
<td>9</td>
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<tr>
<td>STEM Academy</td>
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<td>PHD Academy</td>
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<tr>
<td>Communications Academy</td>
<td>12</td>
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<tr>
<td>Clubs and Advisors</td>
<td>13</td>
</tr>
<tr>
<td>Arts: Visual</td>
<td>14-15</td>
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<tr>
<td>Arts: Performing</td>
<td>15-16</td>
</tr>
<tr>
<td>Career Technical Education</td>
<td>17-18</td>
</tr>
<tr>
<td>English Language Arts</td>
<td>19-20</td>
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<tr>
<td>World Languages</td>
<td>21-22</td>
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<tr>
<td>Mathematics</td>
<td>23</td>
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<tr>
<td>Physical Education</td>
<td>24</td>
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<tr>
<td>Science: Life</td>
<td>25</td>
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<tr>
<td>Science: Physical</td>
<td>26</td>
</tr>
<tr>
<td>Social Science</td>
<td>27-28</td>
</tr>
<tr>
<td>English Language Development</td>
<td>28</td>
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<tr>
<td>Special Education</td>
<td>28</td>
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<tr>
<td>Non-Departmental</td>
<td>29</td>
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</tbody>
</table>
Note: the following requirements must be met to receive a diploma from the Liberty Union High School District

### Course Requirements

**Course Requirements**  
*(10 Credits = 1 year)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English:</td>
<td>Students must pass 9th, 10th, 11th and 12th grade levels</td>
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<tr>
<td>Social Studies:</td>
<td>a. One year of World History (10)</td>
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<td></td>
<td>b. One year of U.S. History (11)</td>
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<td></td>
<td>c. One semester of American Government (12)</td>
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<tr>
<td></td>
<td>d. One semester of Economics (12)</td>
</tr>
<tr>
<td>Mathematics:</td>
<td>Students must pass three years of mathematics with completion of Algebra through Geometry</td>
</tr>
<tr>
<td>Science:</td>
<td>a. One year of Life Science (Biology)</td>
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<tr>
<td></td>
<td>b. One year of Physical Science (Earth Science, Chemistry or Physics.)</td>
</tr>
<tr>
<td>Fine Arts or World Language:</td>
<td>1 year</td>
</tr>
<tr>
<td>Physical Education:</td>
<td>a. One year of 9th grade P.E.</td>
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<tr>
<td></td>
<td>b. One year of 10th grade P.E.</td>
</tr>
<tr>
<td>Health:</td>
<td>Students must take one semester of health education</td>
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<tr>
<td>Electives:</td>
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</table>

**Total number of credits required for graduation**  

**270**

### Graduation Requirements

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.
Students must earn a “C” or better in these courses for eligibility to UC or CSU. Minimum of 15 year-long college preparatory courses are required for eligibility to UC or CSU.

### UC & CSU Minimum Subject Requirements

#### University of California
Minimum 3.0 GPA

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>a. History/Social Science</td>
<td>(2 years required) 1 year World History, 1 year U.S. History, 1 year American Government/Economics</td>
</tr>
<tr>
<td>b. English</td>
<td>(4 years required) 1 year each of 9th, 10th, 11th, 12th grade English</td>
</tr>
<tr>
<td>c. Mathematics</td>
<td>(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</td>
</tr>
<tr>
<td>d. Lab Science</td>
<td>(2 years required; 3 recommended) 1 year Biology, 1 year Chemistry or Physics</td>
</tr>
<tr>
<td>e. Language</td>
<td>(2 years required; 3 recommended) 2 years of the same language [other than English]</td>
</tr>
<tr>
<td>f. Visual and Performing Arts</td>
<td>(1 year required) 1 year of a visual or performing arts course</td>
</tr>
<tr>
<td>g. Electives</td>
<td>(1 year required) 1 year of an elective listed on the “a-g” course list</td>
</tr>
</tbody>
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#### California State University
Minimum 3.0 GPA

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<tr>
<td>g. Electives</td>
<td>(1 year required) 1 year of an elective listed on the “a-g” course list</td>
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</tbody>
</table>
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
- English 2
- English 3
- English 4
- 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
- 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 ROP Environmental Science
- AP Physics
- Biology
- Biotechnology
- Chemistry
- Physics

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:
- AP Economics
- AP Psychology
- Athletics Management
- Creative Writing
- Earth Science
- Economics
- Forensic Science
- Journalism
- Peace and Conflict Studies
- Psychology within Society
- PUSH
- ROP Sports Medicine 1
- Speech and Debate
For students planning to pursue collegiate athletics

### NCAA Approved Course List

#### English:
- American Studies (English)
- AP Language and Composition
- AP Literature and Composition
- Creative Writing
- English 1, 2, 3, 4
- Expository Reading and Writing
- Journalism
- Science Fiction Literature
- Speech and Debate
- World Studies (English)

#### Social Science:
- American Government
- American Studies (US History)
- AP American Government
- AP Economics
- AP Psychology
- AP U.S. History
- AP World History
- Economics
- Psychology within Society
- US History
- World Cultures/Geography
- World History
- World Studies (World History)

#### Mathematics:
- Algebra 1
- Algebra 2
- Algebra 2 and Trigonometry
- AP Calculus
- AP Statistics
- Calculus
- Geometry
- Intensified Algebra
- Pre-Calculus

#### Natural/Physical Science:
- Anatomy & Physiology
- AP Biology
- AP Chemistry
- AP Physics
- Biology
- Biotechnology
- Chemistry
- Earth Science
- Environmental Science
- Forensic Science
- Physics
- ROP AP Environmental Science
- ROP Biotechnology

#### Additional Core Courses:
- AP French Language
- 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](WWW.NCAA.ORG/STUDENT-ATHLETES/FUTURE/ELIGIBILITY-CENTER)

During their sophomore year, student athletes should complete the NCAA online registration at [www.eligibilitycenter.org](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.

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

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<thead>
<tr>
<th>9th Grade Courses</th>
<th>10th Grade Courses</th>
</tr>
</thead>
<tbody>
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<td><strong>Fall Semester</strong></td>
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</tr>
<tr>
<td>1) English 1</td>
<td>1) English 2</td>
</tr>
<tr>
<td>2) Algebra 1/Geometry</td>
<td>2) Geometry</td>
</tr>
<tr>
<td>3) World Cultures</td>
<td>3) World History</td>
</tr>
<tr>
<td>4) Earth Science/Biology</td>
<td>4) Biology</td>
</tr>
<tr>
<td>5) Physical Education</td>
<td>5) Physical Education</td>
</tr>
<tr>
<td>6) Elective</td>
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</tr>
<tr>
<td>7) World Language</td>
<td>7) World Language</td>
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<tr>
<td>8) Study Hall</td>
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<table>
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<tr>
<th><strong>Spring Semester</strong></th>
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<td>1) English 1</td>
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<tr>
<td>2) Algebra 1/Geometry</td>
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<thead>
<tr>
<th>11th Grade Courses</th>
<th>12th Grade Courses</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td>1) English 3 or American Studies</td>
<td>1) English 4</td>
</tr>
<tr>
<td>2) U.S. History or American Studies</td>
<td>2) Economics</td>
</tr>
<tr>
<td>3) Algebra 2</td>
<td>3) Math Elective, Pre-Cal, Stats (Upper Level)</td>
</tr>
<tr>
<td>4) World Language 3</td>
<td>4) World Language 4</td>
</tr>
<tr>
<td>5) Chemistry or Physics</td>
<td>5) Science Elective (Upper Level)</td>
</tr>
<tr>
<td>6) U.C. or CSU eligible elective</td>
<td>6) U.C. or CSU eligible elective</td>
</tr>
<tr>
<td>7) U.C. or CSU eligible elective</td>
<td>7) U.C. or CSU eligible elective</td>
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<td>8) Study Hall</td>
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<th><strong>Spring Semester</strong></th>
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<tbody>
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<td>1) English 3 or American Studies</td>
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<tr>
<td>2) U.S. History or American Studies</td>
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<tr>
<td>3) Algebra 2 or Applied Career Math</td>
</tr>
<tr>
<td>4) Visual/Performing Arts or World Language</td>
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<td>8) Study Hall</td>
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</tbody>
</table>

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

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<tr>
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<td><strong>Fall Semester</strong></td>
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Post High School Goal: Total credits to date:
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. Like all public schools, Freedom is feeling the effects of state budget cuts and so any additional financial support or donations are always greatly appreciated.

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Girls Volleyball</td>
<td>Girls Basketball</td>
<td>Softball</td>
</tr>
<tr>
<td>Girls Tennis</td>
<td>Girls Soccer</td>
<td>Baseball</td>
</tr>
<tr>
<td>Girls Water Polo</td>
<td>Wrestling</td>
<td>Boys Golf</td>
</tr>
<tr>
<td>Girls Golf</td>
<td>Boys Soccer</td>
<td>Boys Tennis</td>
</tr>
<tr>
<td>Cross Country</td>
<td>Boys Basketball</td>
<td>Boys Volleyball</td>
</tr>
<tr>
<td>Football</td>
<td>Cheerleading</td>
<td>Swimming</td>
</tr>
<tr>
<td>Boys Water Polo</td>
<td>Co-ed Unified Bowling</td>
<td>Diving</td>
</tr>
<tr>
<td>Cheerleading</td>
<td></td>
<td>Track &amp; Field</td>
</tr>
<tr>
<td>Co-ed Unified Soccer</td>
<td></td>
<td>Co-ed Unified Basketball</td>
</tr>
</tbody>
</table>

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

We encourage parents to sign up to be 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 coaches at their email addresses on our school webpage 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.
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
3. A student must have taken a minimum of five college prep courses

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:
1. 3.0 or higher GPA
2. Completed application and signature from any teacher
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

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
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.

ROP Advantages
Students can use ROP courses to gain employment skills, explore a career field, get a head start on their college major, or “try out” a career choice through internships available in many classes. Many students use their newly acquired skills to work part-time after graduation to help pay college expenses. Successful completion of ROP Careers with Children requirements for LMC will grant a student 3 college units for Child Study 1 course. Successful completion of ROP Fire Science requirements for LMC will grant a student 3 college units for Fire-Tech-101.

ROP Goals
Students should leave an ROP class with the following skills:

- Demonstrate effective skills in oral and written **communication**
- Demonstrate **job skills** and the behavior and work ethic valued by employers
- Demonstrate the ability to be critical, complex and creative **thinkers**
- Work productively both as individuals and as **team members**
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 Mrs. Bruins (C211) and Ms. Dagan (P17)

STEM is for you!

To earn a STEM Certificate:
A. Complete the requirements in your chosen pathway
B. Meet the UC/CSU course requirements for graduation
C. Participate in community service activities
D. Present a senior project developed by you to the community
E. Maintain a GPA of 3.0 in core and STEM related courses

Earning a STEM Certificate is as easy as ABC and these are the benefits:
- You will get special recognition on graduation day.
- You will meet the course requirements for the UC/CSU systems.
- Demonstrate your commitment to your academic success when you apply for a job or college
- You have nothing to lose and a lot to gain if you try to earn the certificate

<table>
<thead>
<tr>
<th>STEM Pathway</th>
<th>Career pathways</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engineering</strong></td>
<td>a. Architectural and Structural Engineering</td>
</tr>
<tr>
<td></td>
<td>b. Computer Hardware, Electrical, and Networking Engineering</td>
</tr>
<tr>
<td></td>
<td>c. Engineering Design</td>
</tr>
<tr>
<td></td>
<td>d. Engineering Technology</td>
</tr>
<tr>
<td></td>
<td>e. Environmental and Natural Science Engineering</td>
</tr>
<tr>
<td></td>
<td>f. Public utilities</td>
</tr>
<tr>
<td><strong>Technology</strong></td>
<td>a. Information Support and Services</td>
</tr>
<tr>
<td></td>
<td>b. Media Support and Services</td>
</tr>
<tr>
<td></td>
<td>c. Network Communications</td>
</tr>
<tr>
<td></td>
<td>d. Programming and Systems Development</td>
</tr>
<tr>
<td><strong>Research Sciences</strong></td>
<td>a. Life sciences</td>
</tr>
<tr>
<td></td>
<td>b. Physical sciences</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>a. Applied mathematics</td>
</tr>
<tr>
<td></td>
<td>b. Theoretical mathematics</td>
</tr>
</tbody>
</table>
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.

Our Professional Human Development Academy elective courses focus on the following career choices…

All students involved in the PHD Academy must take the following courses: Psychology or AP Psychology and Algebra 2 or a 3rd year of Math or 3 years of a foreign language.

<table>
<thead>
<tr>
<th>Majors</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Science 30 Units</td>
<td><strong>Required Courses:</strong> ROP Fire Science, Strength &amp; Fitness Electives: Chemistry, Peace &amp; Conflict, Child Development</td>
</tr>
<tr>
<td>Law Enforcement/Armed Forces 30 Units</td>
<td><strong>Required Courses:</strong> ROP Law Enforcement, Strength &amp; Fitness Electives: AP Government, Peace &amp; Conflict, Forensic Science, Child Development</td>
</tr>
<tr>
<td>Law 30 Units</td>
<td><strong>Required Courses:</strong> AP Government Electives: Peace &amp; Conflict, Speech &amp; Debate, Forensic Science, ROP Law Enforcement</td>
</tr>
<tr>
<td>Medicine/Sports Medicine 30 Units</td>
<td><strong>Required Courses:</strong> Anatomy &amp; Physiology, Sports Medicine Electives: Chemistry, AP Biology, Biotechnology, Physics</td>
</tr>
<tr>
<td>Psychology 30 Units</td>
<td><strong>Required Courses:</strong> AP Psychology Electives: Peace &amp; Conflict, Anatomy &amp; Physiology, Chemistry, AP Biology</td>
</tr>
<tr>
<td>Teaching 30 Units</td>
<td><strong>Required Courses:</strong> Child Development, ROP Careers in Education, Job Shadowing Electives: Peace &amp; Conflict</td>
</tr>
<tr>
<td>Veterinary Medicine 30 Units</td>
<td><strong>Required Courses:</strong> Anatomy &amp; Physiology, Zoology Electives: Chemistry, AP Biology, AG Science</td>
</tr>
</tbody>
</table>
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.

Mass Communications/Multimedia
- Animation
- Graphic Design I/II
- ROP Digital Arts (Web Design)
- Radio Broadcasting
- ROP Art of Video Production
- Advanced Video Production
- Photo I/II
- Computer Keyboarding
- Leadership

Business/Marketing
- Speech and Debate
- Business Communication
- Introduction to Marketing
- Journalism
- Radio Broadcasting
- Introduction to Business
- Graphic Design I/II
- Leadership
- Yearbook
- *4 Years Foreign Language
- Personal Finance

Journalism/Photojournalism
- Yearbook
- Journalism
- Photo I/II
- Creative Writing
- Graphic Design I/II
- AP English 3/4
- Computer Keyboarding
- ROP Digital Arts

Fine Arts
- Photo I/II
- Beginning Animation
- Advanced Animation
- Beginning Art
- Intermediate Art
- Advanced Art
- AP Studio Art
- Intro to Art History
- AP Art History

Performing Arts
- Theater I, II, III
- Beginning Guitar
- Orchestra
- Concert Band
- Speech and Debate
- Symphonic Band
- Music Appreciation
- Women's Ensemble
- Select Singers
- Men's Chorus
- A Cappella Choir
- Jazz Band

Speech Communication/Rhetoric
- AP Art History
- Introduction to Art History
- Creative Writing
- Science Fiction
- *4 Years Foreign Language
- American Studies
- World Studies
- AP English 3/4
- Speech and Debate
- Poetry

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.
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.

### Clubs and Advisors

<table>
<thead>
<tr>
<th>Clubs</th>
<th>Advisor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activities:</td>
<td>Dana Johnston</td>
</tr>
<tr>
<td>Academic Decathlon:</td>
<td>Sean Clarke</td>
</tr>
<tr>
<td>Aerospace &amp; Robotics:</td>
<td>Dave Harte</td>
</tr>
<tr>
<td>ALOHA:</td>
<td>Alex Dalida</td>
</tr>
<tr>
<td>Anime Club:</td>
<td>Frank Beede</td>
</tr>
<tr>
<td>Art Club:</td>
<td>Dave Gautier</td>
</tr>
<tr>
<td>Band:</td>
<td>George Chilcott</td>
</tr>
<tr>
<td>Be the Change:</td>
<td>Susan Warren</td>
</tr>
<tr>
<td>Best Buds:</td>
<td>Kristen Scott</td>
</tr>
<tr>
<td>Black Student Union:</td>
<td>Kim Rucker</td>
</tr>
<tr>
<td>California Scholarship Federation:</td>
<td>S. Angelo</td>
</tr>
<tr>
<td>Choir:</td>
<td>Eli Souza</td>
</tr>
<tr>
<td>Centre Stage:</td>
<td>Hayley Cummins</td>
</tr>
<tr>
<td>Color Guard:</td>
<td>George Chilcott</td>
</tr>
<tr>
<td>Comic Book Club:</td>
<td>Liz Gray</td>
</tr>
<tr>
<td>Communications:</td>
<td>Lori Butler</td>
</tr>
<tr>
<td>Computer Science:</td>
<td>Nicole Hooper</td>
</tr>
<tr>
<td>Connect Crew:</td>
<td>Dana Johnston</td>
</tr>
<tr>
<td>Dance Line:</td>
<td>Leslie Runzler</td>
</tr>
<tr>
<td>Class of ’17:</td>
<td>Foehr/Gengler</td>
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<tr>
<td>Class of ’18:</td>
<td>Apel/Garcia</td>
</tr>
<tr>
<td>Class of ’19:</td>
<td>Cruit/Gasca</td>
</tr>
<tr>
<td>Class of ’20:</td>
<td>Beede/Luna</td>
</tr>
<tr>
<td>Fashion Club:</td>
<td>Dave Behling</td>
</tr>
<tr>
<td>FHS Band:</td>
<td>George Chilcott</td>
</tr>
<tr>
<td>French Club:</td>
<td>Madame Boden</td>
</tr>
<tr>
<td>FRESHH:</td>
<td>John Sierra/Susan Warren</td>
</tr>
<tr>
<td>Gamers Club:</td>
<td>David Harte</td>
</tr>
<tr>
<td>Head Rally:</td>
<td>Sandy Torres/Leslie Runzler</td>
</tr>
<tr>
<td>SAGA:</td>
<td>Ann Marlow Rendler</td>
</tr>
<tr>
<td>German Club:</td>
<td>Julia Textor/Allison Smith</td>
</tr>
<tr>
<td>Interact Club:</td>
<td>Hooper/Carey</td>
</tr>
<tr>
<td>Italian Club:</td>
<td>Miles Macy</td>
</tr>
<tr>
<td>Journalism:</td>
<td>Leslie Runzler</td>
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<tr>
<td>Latinos Unidos:</td>
<td>Anna Gonzalez-Ortega</td>
</tr>
<tr>
<td>Leadership:</td>
<td>Dana Johnston</td>
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<tr>
<td>Marching Band:</td>
<td>George Chilcott</td>
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<tr>
<td>Math Club:</td>
<td>Burke/Gordon</td>
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<tr>
<td>MTG Club:</td>
<td>Rachael Woodcock</td>
</tr>
<tr>
<td>Military Club:</td>
<td>Alex Dalida</td>
</tr>
<tr>
<td>National Honor Society:</td>
<td>Cheryl Ochinero</td>
</tr>
<tr>
<td>P.A.W.S.:</td>
<td>H. Emery/R.Kelleher</td>
</tr>
<tr>
<td>PHD Academy:</td>
<td>N. Hooper</td>
</tr>
<tr>
<td>Power of Unity:</td>
<td>G. Payette/C. Rodriguez</td>
</tr>
<tr>
<td>PUSH:</td>
<td>Neil Boden</td>
</tr>
<tr>
<td>Redeemed:</td>
<td>N. Boden/V. Graves</td>
</tr>
<tr>
<td>Rugby Club:</td>
<td>Liz Gray</td>
</tr>
<tr>
<td>STEM:</td>
<td>S. Clarke/C. Bruins</td>
</tr>
<tr>
<td>Sports Medicine:</td>
<td>Glenn Briggs</td>
</tr>
<tr>
<td>The Zone:</td>
<td>Jason Jeffrey</td>
</tr>
<tr>
<td>UNICEF:</td>
<td>Kathy Burke</td>
</tr>
<tr>
<td>Yearbook:</td>
<td>Leslie Runzler</td>
</tr>
</tbody>
</table>

Activities: to ask any questions regarding any of the school’s clubs or extra-curricular activities, please email the advisor or Dana Johnston, Activities Director, johnston@luhsd.net or call Ext. 3820.
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, such as design concepts and harmonious relationships between line, value, color, texture, and form. The student will use a wide variety of techniques and materials to create individual projects. Examples of assignments are figure drawing, still life, self-portrait, company logo, advertising design.

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 silkscreen designs, compact disc covers, company trademark designs, etc. Additionally, students utilize various research skills to produce written and oral projects pertaining to art history and aesthetics.

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 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:  Graphic Design 1
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-Graphic Design 2  Course #1549
Level:  10-12
Length:  Year (10 credits); repeat to 30 credits
Prerequisite:  Graphic Design 1
Graduation:  Fine Arts requirement
College Prep:  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-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-Advanced Placement (AP) Art History  
Course #1575
Level:  10-12 (9th grade with instructor approval)
Length:  Year (10 credits)
Prerequisite:  None
Graduation:  Fine Arts requirement or elective credit
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-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
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.

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 students who play string instruments (i.e. violin, viola, cello, double bass) and/or experienced piano students. 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 a performance band for incoming freshman and other musicians. Members of this group will become a Marching Band in the fall as they combine with Symphonic Band members to perform at all 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 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  
College Prep: VAPA (f) requirement  
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 all 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 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 extracurricular 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 to advanced 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 vocal/choral technique, vocal production and performance. At least one performance per quarter will be scheduled for the general public as well as performing/competing in various music festivals. 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 is a choral music class designed for those students with little or no vocal experience. Emphasis is on musicianship, vocal production, and vocal techniques. 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. Men’s Chorus is a choral music class designed for young men with little or no vocal experience. Emphasis is on beginning musicianship, vocal production, and vocal technique. All performances are mandatory. 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: Concurrent enrollment in A’Cappella Choir or Women’s Ensemble and audition  
Graduation: Fine Arts requirement or elective credit  
College Prep: VAPA (f) requirement  
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 or Women’s Ensemble.

P-Women’s Ensemble  
Course #6142  
Level: 10-12  
Length: Year (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.
Parent/Guardian and student must sign an Acceptable Use Policy contract prior to students using computers on campus. (Contract available at walk-thru registration.)

Computer Keyboarding I  Course #2230
Level:  9-12
Length:  Semester (5 credits)
Prerequisite:  None
Graduation:  Elective credit

This class is intended to provide students who do not know the keyboard with basic keyboarding skills. Using the keyboard is essential for success in a majority of required classes for graduation and for future college/career requirements. Keyboarding I will focus on development of proper keyboard technique. Students are expected to learn the keyboard by touch. During this course, students will learn basic formatting of word processed documents.

Microsoft Office Basics  Course #4066
Level:  9-12
Length:  Semester (5 credits)
Prerequisite:  Keyboarding I recommended
Graduation:  Elective credit

This is a semester long course designed for students to learn the introductory aspects of Microsoft Office applications Word, Excel, Access and PowerPoint. Students produce complex word processing documents, spreadsheet layouts, multimedia presentations and databases. Students will create a personal web page and a fictitious business.

Java Programming/Computer Science  Course #2325
Level:  9-12
Length:  Year (10 credits)
Prerequisite:  None
Graduation:  Elective credit

This elective computer science course will introduce students to the fundamentals of computer programming using the Java language. Java is a modern, object-oriented language created by Sun Microsystems. The major advantage of Java includes its portability and use on the Internet. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger.

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.

Android Development Using Java  Course #2326
Level:  9-12
Length:  Year (10 credits)
Prerequisite:  Computer Science with Java Programming or approval from teacher after preparedness test
Graduation:  Elective credit

Android Development Using Java will introduce students to the highly sought after world of mobile app development using the Android platform. Students will gain a strong foundation in Java programming and the confidence to build successful mobile applications. The course will help reinforce students understanding of programming logic and Java tools for Android. As well as effectively prepare student programmers to meet growing business demand for mobile apps.

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

This course is designed to introduce students to the central ideas of computing and computer science, to instill ideas and practices of computational thinking and to have students engage in activities that show how computing and computer science change the world. Students will learn how to access the world of mobile services and application as consumers and not just learners. They will learn to create entertaining and socially useful apps that can be shared with family and friends. In addition to learning to program and how to become better problem solvers, students will also explore the exciting world of computer science from the perspective of mobile computing and its increasingly important effect on society. This course is part of a national project through the College Board and National Science Foundation.

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 drafting. 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.

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

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.

Introduction to Business  Course #2290
Level:  10-12
Length:  Semester (5 credits)
Prerequisite:  Keyboarding or Practical Computing
Graduation:  Elective credit

Introduction to Business is a survey of the private enterprise system. The course provides students with a broad background about the modern business world. It provides an in depth look at the basic business concepts, economics, types of ownership, organization and functions, the data and systems by which businesses are controlled. Topics include types of ownership, management principles, the internal organization, marketing, human resource management, finance and risk management.
Child Development Course #2516
Level: 11-12
Length: Year (10 credits)
Graduation: Elective 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 age six grow physically, mentally, socially, and emotionally.

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

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 and classrooms at the preschool, primary/elementary, middle/junior high, and secondary levels. Completion of this course with a B or better articulates with LMC courses Child Development 22 and 32 and may be worth up to 6 units of credit at LMC.

ROP Law Enforcement Course #2760
Level: 11-12
Length: Year (10 credits)
Prerequisite: Must be 16 years or older
Graduation: Elective credit

Students learn the structure and organization of the criminal justice system and gain knowledge of basic police procedures, regulations and responsibilities. Included is an overview of codified law and penal code, laws of arrest, search and seizure guidelines, patrol and investigations procedures, and emergency response, 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.

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.

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 write in-depth reports detailing the construction and operation of their devices.

Virtual Enterprise Course #2310
Level: 10-12
Length: Year (10 credits)
Prerequisite: None
Graduation: Elective credit

Virtual Enterprise is a simulated business set up and run by students to prepare them for working in a real business environment. With the guidance of a teacher "consultant" and real-world business partners, the students determine the nature of their business, its goods and services, its management and structure, and engage in the daily operations of running a business. Emphasis is placed on using current business software, communications, and the Internet for business transactions.

Introduction to Marketing Course #2272
Level: 10-12
Length: Semester (5 credits)
Prerequisite: None
Graduation: Elective credit

This is an introductory course to marketing activities in modern business firms. The major topics covered are: consumer behavior, market segmentation, marketing channels, marketing planning, marketing research, promotions, building customer relations, and execution of the marketing mix. The course emphasis is on the application of current marketing concepts pertaining to today's environment.

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.

Beginning Fashion Design and Construction Course #1526
Level: 9-12
Length: Semester (5 credits)
Prerequisite: Concurrent enrollment in Beg. Art or instructor approval
Graduation: Fine Arts requirement or elective credit

This course will teach the basics of clothing construction and is designed as a prerequisite to intermediate/advanced Fashion Design and Theater Costume Design. Fundamentals of fabric composition and construction, pattern selection, layout and assembly will be taught. Students learn to use a sewing machine and will learn basic hand-sewing techniques. Students design the garments which they construct, combining their own ideas with resources on the Internet. Students are required to purchase their own fabric and patterns, as approved by the teacher.

Intermediate/Advanced Fashion Design and Construction Course #1529
Level: 9-12
Length: Semester (5 credits); repeat to 20 credits
Prerequisite: Beg. Art, Beg. Fashion or instructor approval
Graduation: Fine Arts requirement or elective credit

This course is a continuation of Beginning Fashion Design and Construction. More emphasis will be placed on the creation of original designs. Emphasis will include color, line, texture and unique and individual styling. Students may use the Internet as well as computer programs to assist them with their designs. The class will culminate with a fashion show, which will be videotaped and may be broadcast. Students will be required to purchase their own fabric and patterns, as approved by the teacher.
## English Language Arts

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English Fundamentals</strong></td>
<td>9-12</td>
<td>Year (10 credits)</td>
<td>Low CST test results may require concurrent enrollment in this course and English 1</td>
<td>Elective credit</td>
<td></td>
</tr>
<tr>
<td><strong>P-English 1</strong></td>
<td>9</td>
<td>Year (10 credits)</td>
<td>None</td>
<td>Year 1 English requirement</td>
<td></td>
</tr>
<tr>
<td><strong>P-English 2</strong></td>
<td>10</td>
<td>Year (10 credits)</td>
<td>English 1</td>
<td>Year 2 English requirement</td>
<td></td>
</tr>
<tr>
<td><strong>P-English 3</strong></td>
<td>11</td>
<td>Year (10 credits)</td>
<td>English 2</td>
<td>Year 3 English requirement</td>
<td></td>
</tr>
<tr>
<td><strong>P-English 4</strong></td>
<td>12</td>
<td>Year (10 credits)</td>
<td>English 3</td>
<td>Year 4 English requirement</td>
<td></td>
</tr>
</tbody>
</table>

*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.*

*English 1 is a core literature-based language arts course integrating literature, writing, grammar, mechanics, speaking and listening, vocabulary development, reading skills, and study skills.*

*English 2 is a core literature-based program integrating literature with writing, grammar, mechanics, speaking and listening, vocabulary development, reading skills, and study skills.*

*English 3 is a core literature-based program integrating the study of American literature with writing, speaking and listening, vocabulary development, reading skills, and study skills.*

*English 4 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. This course is designed for the college bound student.*

## P-World Studies Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P-World Studies Program</strong></td>
<td>10</td>
<td>Year (double-blocked class 20 credits)</td>
<td>English 1</td>
<td>Year 2 English and World Hist requirement</td>
<td></td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P-American Studies Program</strong></td>
<td>11</td>
<td>Year (double-blocked class 20 credits)</td>
<td>English 2</td>
<td>Year 3 English and US History requirement</td>
<td></td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P-Adv. Placement (AP) Lang. and Composition</strong></td>
<td>11-12</td>
<td>Year (10 credits)</td>
<td>English 2</td>
<td>Year 3 English requirement</td>
<td></td>
</tr>
</tbody>
</table>

*Advanced Placement Language and Composition is equivalent to a college or university Freshman Composition course and preparing 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. A mandatory parent meeting is held in the Spring Semester.*

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P-Adv. Placement (AP) Literature and Composition</strong></td>
<td>12</td>
<td>Year (10 credits)</td>
<td>English 3</td>
<td>Year 4 English requirement</td>
<td></td>
</tr>
</tbody>
</table>

*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. A mandatory parent meeting is held in the Spring Semester.*

## P-Science Fiction Literature

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P-Science Fiction Literature</strong></td>
<td>12</td>
<td>Year (10 credits)</td>
<td>English 1,2 and English 3</td>
<td>Year 4 English requirement</td>
<td></td>
</tr>
</tbody>
</table>

*Science Fiction will focus on the reading, analysis, interpretation, and evaluation of science fiction literature in conjunction with common 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.*

## P-Expository Reading and Writing

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P-Expository Reading and Writing</strong></td>
<td>12</td>
<td>Year (10 credits)</td>
<td>English 3</td>
<td>Year 4 English requirement</td>
<td></td>
</tr>
</tbody>
</table>

*The goal of the Expository Reading and Writing Course is to prepare college-bound seniors for the literacy demands of higher education. Through a sequence of fourteen rigorous instructional modules, students in this yearlong, rhetoric-based course develop advanced proficiency in expository, analytical, and argumentative reading and writing.*
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, learn 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, students 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.
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 key pal program and active cultural experiences are included. Students are able to relate to French teenagers’ life through different media. French Internet sites are explored.

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 to communicate more fully in oral and written French. Students are able to expand their communications skills through interviews, oral presentations and an e-mail correspondence with French classes in the U.S.A. and the world. They maintain a class web page. 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.

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 of each trip and complete individual and group multimedia projects. Various 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 enlarge their German vocabulary. Students correspond via e-mail with other students in German classes, make oral presentations including visual aids, and maintain a class Internet site. Students continue learning about culture, geography and history from German-language books, periodicals and Internet sites. A grade 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 only 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.

世界へこんにちは  
¡Hola mundo!  
Hej Värld!  
Ciao Mondo!  
Hello World!  
Hallo Welt!  
Здравствуй, мир!  
Salut le Monde!  
Moi Maailma!  
你好世界  
그야말로 Cosmos  
Hello Wereld!  
어러분 안녕하세요!  
¡Olá mundo!
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.
**Mathematics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-Algebra 1</td>
<td>9-12</td>
<td>Year (10 credits)</td>
<td>Placement based on LUHSD criteria</td>
<td>Algebra 1 requirement</td>
<td>Math (c) requirement</td>
</tr>
<tr>
<td>P-Pre-Calculus</td>
<td>10-12</td>
<td>Year (10 credits)</td>
<td>Algebra 2 grade C or better</td>
<td>1 year Math requirement</td>
<td>Math (c) requirement</td>
</tr>
<tr>
<td>P-Advanced Placement (AP) Calculus A/B</td>
<td>10-12</td>
<td>Year (10 credits)</td>
<td>Pre-Calculus grade C or better</td>
<td>1 year Math requirement</td>
<td>Math (c) requirement</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-Illustrated Algebra</td>
<td>9 - 12</td>
<td>Year (20 credits maximum)</td>
<td>Placement based on LUHSD criteria</td>
<td>Geometry requirement</td>
<td>Math (c) requirement</td>
</tr>
<tr>
<td>P-Intensified Algebra</td>
<td>9 - 12</td>
<td>Year (10 credits)</td>
<td>Intensified Algebra</td>
<td>Geometry requirement</td>
<td>Math (c) requirement</td>
</tr>
</tbody>
</table>

Intensified Algebra is a two period math course that meets every day designed to build the algebra skills and concepts necessary for students to complete the college prep algebra program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-Geometry</td>
<td>9-12</td>
<td>Year (10 credits)</td>
<td>Algebra 1 or Intensified Algebra</td>
<td>Geometry requirement</td>
<td>Math (c) requirement</td>
</tr>
<tr>
<td>P-Advanced Placement (AP) Calculus A/B</td>
<td>10-12</td>
<td>Year (10 credits)</td>
<td>Pre-Calculus grade C or better</td>
<td>1 year Math requirement</td>
<td>Math (c) requirement</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-Algebra 2</td>
<td>9-12</td>
<td>Year (10 credits)</td>
<td>None</td>
<td>1 year Math requirement</td>
<td>Math (c) requirement</td>
</tr>
<tr>
<td>P-Statistics</td>
<td>11-12</td>
<td>Year (10 credits)</td>
<td>Algebra 2</td>
<td>1 year Math requirement or elective credit</td>
<td>Math (c) requirement</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-Pre-Calculus</td>
<td>10-12</td>
<td>Year (10 credits)</td>
<td>Pre-Calculus grade C or better</td>
<td>1 year Math requirement</td>
<td>Math (c) requirement</td>
</tr>
<tr>
<td>P-Advanced Placement (AP) Calculus A/B</td>
<td>10-12</td>
<td>Year (10 credits)</td>
<td>Pre-Calculus grade C or better</td>
<td>1 year Math requirement</td>
<td>Math (c) requirement</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
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<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-Algebra 2</td>
<td>9-12</td>
<td>Year (10 credits)</td>
<td>Algebra 1 or Intensified Algebra</td>
<td>Geometry requirement</td>
<td>Math (c) requirement</td>
</tr>
<tr>
<td>P-Advanced Placement (AP) Calculus A/B</td>
<td>10-12</td>
<td>Year (10 credits)</td>
<td>Pre-Calculus grade C or better</td>
<td>1 year Math requirement</td>
<td>Math (c) requirement</td>
</tr>
</tbody>
</table>

Algebra 2 Support is an elective course designed for students currently enrolled in Algebra 2 who need additional support.

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-Algebra 2 and Trigonometry</td>
<td>9-12</td>
<td>Year (10 credits)</td>
<td>Alg. 1 + Geom. + placement test or Algebra 2</td>
<td>1 year Math requirement</td>
<td>Math (c) requirement</td>
</tr>
<tr>
<td>P-AP Statistics</td>
<td>11-12</td>
<td>Year (10 credits)</td>
<td>Algebra 2</td>
<td>1 year Math requirement or elective credit</td>
<td>Math (c) requirement</td>
</tr>
</tbody>
</table>

Algebra 2 and Trigonometry 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.

<table>
<thead>
<tr>
<th>Course</th>
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<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-Pre-Calculus</td>
<td>10-12</td>
<td>Year (10 credits)</td>
<td>Pre-Calculus grade C or better</td>
<td>1 year Math requirement</td>
<td>Math (c) requirement</td>
</tr>
<tr>
<td>P-Advanced Placement (AP) Calculus A/B</td>
<td>10-12</td>
<td>Year (10 credits)</td>
<td>Pre-Calculus grade C or better</td>
<td>1 year Math requirement</td>
<td>Math (c) requirement</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
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<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-Algebra 2 and Trigonometry</td>
<td>9-12</td>
<td>Year (10 credits)</td>
<td>Alg. 1 + Geom. + placement test or Algebra 2</td>
<td>1 year Math requirement</td>
<td>Math (c) requirement</td>
</tr>
<tr>
<td>P-AP Statistics</td>
<td>11-12</td>
<td>Year (10 credits)</td>
<td>Algebra 2</td>
<td>1 year Math requirement or elective credit</td>
<td>Math (c) requirement</td>
</tr>
</tbody>
</table>

Applied Career Mathematics 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Graduation</th>
<th>College Prep</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Career Mathematics</td>
<td>11-12</td>
<td>Year (10 credits)</td>
<td>Algebra 1 or Intensified Algebra; Geometry 1</td>
<td>1 year Math requirement</td>
<td>Math (c) requirement</td>
</tr>
</tbody>
</table>
Students must successfully complete a full year of both 9th Grade Core and 10th Grade Core Physical Education to meet the graduation requirement.

9th Grade Core Physical Education  
Course #5750  
Level: 9  
Length: Year (10 credits)  
Prerequisite: None  
Graduation: 9th grade Physical Education requirement

10th Grade Core Physical Education  
Course #5760  
Level: 10  
Length: Year (10 credits) can be repeated  
Prerequisite: 9th Grade Core Physical Education  
Graduation: 10th grade Physical Education requirement

Advanced Athletic Skills  
Course #5662  
Level: 10-12  
Length: Semester (5 credits)  
Prerequisite: PE 9; teacher recommendation  
Graduation: Elective credit

Baseball/Softball Tactics  
Course #5668  
Level: 9-12  
Length: Semester (5 credits); repeat for credit  
Prerequisite: None  
Graduation: Elective credit (Does not replace core PE classes)

Basketball Techniques and Tactics  
Course #5674  
Level: 10-12  
Length: Semester (5 credits); repeat for credit  
Prerequisite: PE 9; teacher recommendation  
Graduation: Elective credit

Bowling Fundamentals  
Course #5670  
Level: 11-12  
Length: Semester (5 credits)  
Prerequisite: PE 9 and PE 10; transportation waiver; and teacher recommendation  
Graduation: Elective credit

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

Net Sports  
Course #5665  
Level: 10-12  
Length: Semester (5 credits); repeat for credit  
Prerequisite: Teacher recommendation  
Graduation: Elective credit

Walking for Fitness  
Course #5676  
Level: 10-12  
Length: Semester (5 credits); repeat for credit  
Prerequisite: PE 9 and teacher recommendation  
Graduation: Elective credit

Strength and Fitness  
Course #5792  
Level: 10-12  
Length: Semester (5 credits); repeat for credit  
Prerequisite: PE 9 and PE 10  
Graduation: Elective credit

P-Athletics Management  
Course #5660  
Level: 10-12  
Length: Year (10 credits); repeat for credit  
Prerequisite: Teacher recommendation  
Graduation: Elective credit

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.
### P-Biology  
**Course #: 5050**  
**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** None  
**Graduation:** Life Science requirement  
**College Prep:** Life Science lab (d) requirement  

Biology is a one-year course designed for all students. This course emphasizes the study of the characteristics of life, cellular structure and function, genetics, evolution, ecology, and comparative anatomy and physiology. Connections are made with current issues and concepts from Earth Science, Chemistry and Physics. Laboratory work is a regular part of the course.

### P-Advanced Placement (AP) Biology  
**Course #: 5010**  
**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Successful completion of Biology and Chemistry 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. The three general areas covered in this course are: Molecules and Cells, Heredity and Evolution, and Organisms and Populations. 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. A mandatory parent meeting is held in the Spring Semester.

### 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 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; Chemistry recommended  
**Graduation:** Life Science requirement  
**College Prep:** Life Science lab (d) requirement  

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.

### Environmental Science  
**Course #: 5090**  
**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra, Physical Science, and Biology  

Environmental Science is a broadly based course designed to cover environmental issues on both a global and local perspective. Topics included are an understanding of ecosystems, dynamic interaction of air, water, atmosphere and climate, food, biodiversity, energy, waste, and population growth. A central focus highlights responsible growth for a sustainable future.

### P-ROP AP Environmental Science  
**Course #: 5091**  
**Level:** 11-12  
**Length:** Year (10 credits)  
**Prerequisite:** Algebra and Biology, recommend physical science  
**College Prep:** Life 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.

### Zoology  
**Course #: 5080**  
**Level:** 11-12  
**Length:** Semester (5 credits)  
**Prerequisite:** Biology  
**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.
<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>P-Earth Science</td>
<td>5115</td>
</tr>
<tr>
<td>Level: 9-10</td>
<td></td>
</tr>
<tr>
<td>Length: Year (10 credits)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite: None</td>
<td></td>
</tr>
<tr>
<td>Graduation: Physical Science requirement</td>
<td></td>
</tr>
<tr>
<td>College Prep: Elective (g) requirement</td>
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</tr>
</tbody>
</table>

Earth Science is a course designed to meet the State of California content standards in the subject. It is open to all students but taught as an introductory level of high school science that emphasizes not only content but scientific literacy. In particular, major emphasis is placed upon helping students to become independent learners of science. In this effort, skill building in mathematical representation of science concepts, active scientific inquiry, and writing about science is woven throughout the course delivery.

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>P-Chemistry</td>
<td>5135</td>
</tr>
<tr>
<td>Level: 10-12</td>
<td></td>
</tr>
<tr>
<td>Length: Year (10 credits)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite: Physical Science, Biology and Algebra I</td>
<td></td>
</tr>
<tr>
<td>Graduation: Physical Science requirement</td>
<td></td>
</tr>
<tr>
<td>College Prep: Phys. Science lab (d) requirement</td>
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</tr>
</tbody>
</table>

Chemistry is a rigorous one-year course, which emphasizes the basic concepts of Chemistry while it builds and expands upon the student's knowledge gained from previous physics and biology courses. High level mathematical problem solving skills are applied to Chemistry concepts, therefore a high degree of mathematical proficiency is necessary for success in this class. The course also emphasizes critical and creative thinking skills through written assignments and real-world problems and projects.

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>P-Advanced Placement (AP) Chemistry</td>
<td>5160</td>
</tr>
<tr>
<td>Level: 11-12</td>
<td></td>
</tr>
<tr>
<td>Length: Year (10 credits)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite: Chemistry and Algebra 2</td>
<td></td>
</tr>
<tr>
<td>Graduation: Physical Science requirement</td>
<td></td>
</tr>
<tr>
<td>College Prep: Phys. Science lab (d) requirement</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course #</th>
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</thead>
<tbody>
<tr>
<td>P-Forensic Science</td>
<td>5125</td>
</tr>
<tr>
<td>Level: 11-12</td>
<td></td>
</tr>
<tr>
<td>Length: Year (10 credits)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite: Physical Science, Biology and Chemistry</td>
<td></td>
</tr>
<tr>
<td>Graduation: Elective credit</td>
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<tr>
<td>College Prep: Elective (g) requirement</td>
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</tbody>
</table>

Forensic science is a broad survey of the scientific skills, disciplines and training used by forensic specialist in law enforcement, business and industry.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course #</th>
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</thead>
<tbody>
<tr>
<td>P-Physics</td>
<td>5180</td>
</tr>
<tr>
<td>Level: 11-12</td>
<td></td>
</tr>
<tr>
<td>Length: Year (10 credits)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite: Algebra 2, concurrent enrollment in Pre-Calculus recommended</td>
<td></td>
</tr>
<tr>
<td>Graduation: Physical Science requirement</td>
<td></td>
</tr>
<tr>
<td>College Prep: Phys. Science lab (d) requirement</td>
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</tr>
</tbody>
</table>

Physics is designed for students interested in a technical career or science, engineering major in college. The course examines the fundamental principles of physics using high-level mathematical skills. Students will: explore mechanics, light, sound, heat, electricity and magnetism through computer based labs and use of various probes like force, light, acceleration, motion, sound, photo-gates, magnetism as well as traditional labs; learn about optics using laser labs and optic benches; experiment with electrical circuits using computer interfaced amplifiers and computer simulated oscilloscopes; apply concepts of physics in projects throughout the course. Past projects have included: robotics, glider design, Rube Goldberg Machines, catapults, orbital space settlements; learn to use computers for curve fitting, graphing of data and statistical tools to analyze data. This course incorporates the National and California Standards in Physics.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course #</th>
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</thead>
<tbody>
<tr>
<td>P-Advanced Placement (AP) Physics 1</td>
<td>5185</td>
</tr>
<tr>
<td>Level: 10-12</td>
<td></td>
</tr>
<tr>
<td>Length: Year (10 credits)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite: Physics and concurrent enrollment in Pre-Calc recommended or teacher recommendation for concurrent enrollment in Algebra 2</td>
<td></td>
</tr>
<tr>
<td>Graduation: Physical Science requirement</td>
<td></td>
</tr>
<tr>
<td>College Prep: Phys. Science lab (d) requirement</td>
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</tr>
</tbody>
</table>

Advanced Placement Physics B 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.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Search for Extraterrestrial Life (SETL)</td>
<td>TBD</td>
</tr>
<tr>
<td>Level: 11-12</td>
<td></td>
</tr>
<tr>
<td>Length: Semester (5 credits)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite: Biology, Geometry</td>
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</tr>
<tr>
<td>Graduation: Elective credit</td>
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</tbody>
</table>

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.
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:** Year (double-blocked class 20 credits)

**Prerequisite:** None

**Graduation:** Year 2 English and World History requirement

**College Prep:** Year 2 English (b) and World History (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:** Year 3 English and US History requirement

**College Prep:** Year 3 English (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-AP Economics**

**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.
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.

SDAIE 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.

SDAIE 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.

SDAIE courses are open to students in grades 9-12. SDAIE class offerings change on a yearly basis. More information can be obtaining 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 CELDT 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.

This is a very important class which supports English Language Learners with language acquisition skills and helps them to develop a solid academic foundation to build upon.

Special Education

Staff from the Special Education Department meets with other school personnel and parents to cooperatively decide appropriate high school supports for special education students. Each student’s disability is evaluated with placement and services based on the student’s specific needs. All placements must have prior approval of the IEP team and an Individual Education Plan must be written before students are placed in any special education class.

The Excel Program provides services to students with special needs working towards earning a high school diploma through the instructional support model. Students in this program receive their core instruction in the general education class setting. Supplementary supports and services are provided within the regular class or within a special education setting.

The Life Skills program provides a functional academic curriculum to students with severe disabilities. Students receive the majority of their instruction within a special education environment, with opportunities to participate in general education classes as appropriate. Upon completion of the program, students are awarded a Certificate of Completion.
Health

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.

College Entrance Test Review/SAT/ACT

Level:  10-12
Length:  Semester (5 credits); repeat for credit
Prerequisite: Cheer or dance team or teacher approval
Graduation: Elective credit

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

Level:  Year (10 credits)
Length:  Year (10 credits)
Prerequisite: Application process
Graduation: Elective credit

This course focuses on 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 for 40 credits
Prerequisite: Middle School AVID and/or application process
Co-Requisite: 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

Level:  9-12
Length:  Semester
Graduation: Elective credit

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

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

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

Drivers 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

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

This course will focus on the basics of yoga, technique and practice. Yoga styles will include Bikram, Vinaysa Flow, and Iyengar. Non-religious yoga philosophy and yoga history will be introduced. Other cultural styles and histories of movement such as Tai Chi, improvisation, partner dance, and the history and philosophy of social and cultural movement and social dance etiquette will be introduced. Students will need a yoga mat, towel, and loose non-constrictive, non-revealing clothing.

Foundations for Success

Level:  9-11
Length:  Semester (5 credits)
Prerequisite: None
Graduation: Elective credit

This course focuses on skills for freshmen students to navigate high school effectively. Course contents include strategic reading strategies, study skills, time management, note taking and organizational skills. Students participate in career exploration and planning.